

XV-Z100



EN

SHARP®



05.8.25, 6:01 AM

SPECIAL NOTE FOR USERS IN THE U.K.

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 10A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked  or  and of the same rating as above, which is also indicated on the pin face of the plug, must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut off the mains plug and fit an appropriate type.

DANGER:

The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet, as a serious electric shock may occur.

To fit an appropriate plug to the mains lead, follow the instructions below:

WARNING:


THIS APPARATUS MUST BE EARTHED.

IMPORTANT:

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow	: Earth
Blue	: Neutral
Brown	: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

- The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or coloured green or green-and-yellow.
- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

This apparatus complies with the requirements of Council Directives 89/336/EEC and 73/23/EEC as amended by Council Directive 93/68/EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

Αυτή η συσκευή συμμορφώνεται με τις απαιτήσεις των οδηγιών του Συμβουλίου 89/336/ΕΟΚ και 73/23/ΕΟΚ όπως τροποποιήθηκαν από την οδηγία του Συμβουλίου 93/68/ΕΟΚ.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

Bu cihaz Konsey Direktifi 93/68/EEC tarafından düzeltilen 89/336/EEC ve 73/23/EEC Konsey Direktiflerinin gerekliliklerine uygundur.

Tento přístroj je v souladu s požadavky směrnic rady 89/336/EEC a 73/23/EEC, tak jak byly upraveny směrnicí rady 93/68/EEC.

See seade on vastavuses Nõukogu Direktiivis nr 89/336/EEC ja 73/23/EEC esitatud nõuetega, vastavalt Nõukogu Direktiivis nr 93/68/EEC esitatud parandustele

Ez a készülék megfelel a Tanács által kiadott, 89/336/EGK és 73/23/EGK Irányelveknek és az utóbbi módosító 93/68/EGK Irányelvnek

Ši ierice atbilst tehniskam prasibam pec 89/336/EEC un 73/23/EEC direktivam papildinats ar direktivu 93/68/EEC.

Šis prietaisas atitinka ES Tarybos direktyvu 89/336/EEC ir 73/23/EEC patikslintos direktyvos 93/68/EEC reikalavimus.

To urządzenie spełnia wymagania dyrektyw 89/336/EEC i 73/23/EEC wraz z poprawkami dyrektywy 93/68/EEC.

Tento prístroj je v súlade s požiadavkami smerníc rady 89/336/EEC a 73/23/EEC tak ako boli upravené smernicou rady 93/68/EEC.

Ta aparat je v skladu z zahtevami Direktiv Sveta 89/336/EEC in 73/23/EEC kot je navedeno v dopolnilu k Direktivi Sveta 93/68/EEC.

Before using the projector, please read this operation manual carefully.

Introduction

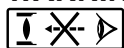
IMPORTANT

- For your assistance in reporting the loss or theft of your Projector, please record the Serial Number located on the bottom of the projector and retain this information.
- Before recycling the packaging, please ensure that you have checked the contents of the carton thoroughly against the list of "Supplied accessories" on page 10.

Model No.: XV-Z100

Serial No.:

WARNING: High brightness light source. Do not stare into the beam of light, or view directly. Be especially careful that children do not stare directly into the beam of light.



WARNING: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

See bottom of projector.

	<p>CAUTION</p> <p>RISK OF ELECTRIC SHOCK. DO NOT REMOVE SCREWS EXCEPT SPECIFIED USER SERVICE SCREW.</p>	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		



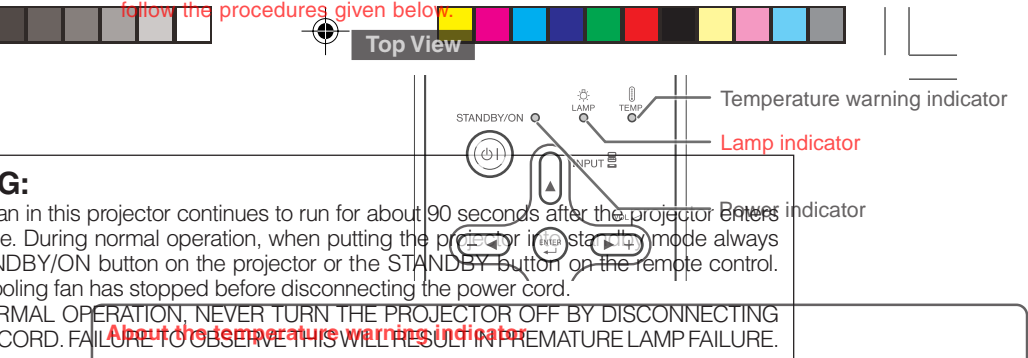
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk or electric shock to persons.



The exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Maintenance

The warning lights (power indicator, lamp indicator and temperature warning indicator) on the projector indicate problems inside the projector.
If a problem occurs, either the temperature warning indicator or the lamp indicator will illuminate red, and the projector will enter standby mode. After the projector has entered standby mode, follow the procedures given below.



G:
an in this projector continues to run for about 90 seconds after the projector enters standby mode. During normal operation, when putting the projector in standby mode always push the STANDBY/ON button on the projector or the STANDBY button on the remote control. The cooling fan has stopped before disconnecting the power cord.

CAUTION: DURING NORMAL OPERATION, NEVER TURN THE PROJECTOR OFF BY DISCONNECTING THE POWER CORD. FAILURE TO OBSERVE THIS WILL RESULT IN PREMATURE LAMP FAILURE.

ABOUT DISPOSAL

This projector utilizes tin-lead solder, and a pressurized lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or, if you are in the United States of America, the Electronic Industries Alliance: www.eiae.org.

Concerning Lamp Replacement

See "Replacing the Lamp" on page 50.

This projector uses a DMD panel. This very sophisticated panel contains 409,920 pixels. As with any high technology electronic equipment, such as large screen TVs, video cameras, there are certain acceptable tolerances that the equipment must meet. Some inactive pixels within acceptable tolerances which may result in inactive dots on the screen. This will not affect the picture quality or the life expectancy of the unit.

When the remaining lamp life becomes 50% or less, the Lamp indicator will illuminate in the lower left corner of the picture. If the temperature keeps on rising, the lamp will turn off and the temperature warning indicator will blink. The cooling fan will run, and then the projector will enter standby mode. After 90 seconds, the projector will enter standby mode. At this time, the lamp indicator will illuminate in red.

If you try to turn on the projector a fourth time without replacing the lamp, the projector will not turn on.

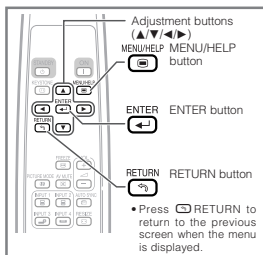
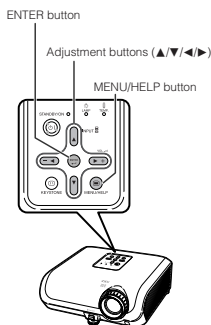
Indicators on the Projector

Power indicator	Red on	Normal (Standby)
	Green on	Normal (Power on)
	Red blinks	Abnormal (See page 49.)
	Green blinks	Normal (Cooling)
Lamp indicator	Green on	Normal
	Green blinks	The lamp is warming up or shutting down.
	Red on	The lamp is shut down abnormally or requires to be changed. (See page 49.)
Temperature warning indicator	Off	Normal
	Red on	The internal temperature is abnormally high. (See page 49.)

How to Read this Operation Manual

- The specifications are slightly different, depending on the model. However, you can connect and operate all models in the same manner.
- In this operation manual, the illustration and the screen display are simplified for explanation, and may differ slightly from the actual display.

Using the Menu Screen



Buttons used in this operation

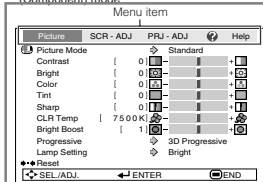
Menu Selections (Adjustments)

Example: Adjusting "Bright".

- This operation can also be performed by using the buttons on the projector.

- 1 Press **MENU**.
• The "Picture" menu screen for the selected input mode is displayed.
- 2 Press **▶** or **◀** and select "Picture" to adjust.

Example: "Picture" screen menu for INPUT 1 (Component) mode.



Button used in this step

On-screen display

Useful Features

GB -39



Info

.....Indicates safeguards for using the projector.



Note

.....Indicates additional information for setting up and operating the projector.

For Future Reference

Maintenance

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IMPORTANT SAFEGUARDS

CAUTION: Please read all of these instructions before you operate this product and save these instructions for later use.

Electrical energy can perform many useful functions. This product has been engineered and manufactured to assure your personal safety. BUT IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARDS. In order not to defeat the safeguards incorporated in this product, observe the following basic rules for its installation, use and servicing.

1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

2. Retain Instructions

The safety and operating instructions should be retained for future reference.

3. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

4. Follow Instructions

All operating and use instructions should be followed.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

7. Water and Moisture

Do not use this product near water—for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

8. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9. Transportation

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



10. Ventilation

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Grounding or Polarization

This product is provided with one of the following types of plugs. If the plug should fail to fit into the power outlet, please contact your electrician. Do not defeat the safety purpose of the plug.

- Two-wire type (mains) plug.
- Three-wire grounding type (mains) plug with a grounding terminal.
This plug will only fit into a grounding type power outlet.

13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14. Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power-line surges.

15. Overloading

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

16. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

17. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

18. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance, this indicates a need for service.

19. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

20. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

21. Wall or Ceiling Mounting

This product should be mounted to a wall or ceiling only as recommended by the manufacturer.

22. Heat

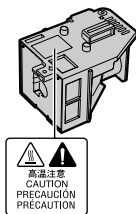
This product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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- Some IC chips in this product include confidential and/or trade secret property belonging to Texas Instruments. Therefore you may not copy, modify, adapt, translate, distribute, reverse engineer, reverse assemble or discompile the contents thereof.

Observe the following safeguards when setting up your projector.

Caution concerning the lamp unit

- Potential hazard of glass particles if lamp ruptures. In case of lamp rupture, contact your nearest Sharp Authorized Projector Dealer or Service Center for replacement. See “Replacing the Lamp” on page 50.



Caution concerning the setup of the projector

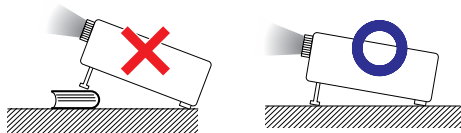
- For minimal servicing and to maintain high image quality, SHARP recommends that this projector be installed in an area free from humidity, dust and cigarette smoke. When the projector is subjected to these environments, the vents and lens must be cleaned more often. As long as the projector is regularly cleaned, use in these environments will not reduce the overall operation life of the unit. Internal cleaning should only be performed by a Sharp Authorized Projector Dealer or Service Center.

Do not set up the projector in places exposed to direct sunlight or bright light.

- Position the screen so that it is not in direct sunlight or room light. Light falling directly on the screen washes out the colors, making viewing difficult. Close the curtains and dim the lights when setting up the screen in a sunny or bright room.

Caution regarding placing of the projector

- Place the projector on a level site within the adjustment range (8 degrees) of the adjustment foot.



When using the projector in high-altitude areas such as mountains (at altitudes of approximately 4,900 feet (1,500 meters) or more)

- When you use the projector in high-altitude areas with thin air, set “Fan Mode” to “High”. Neglecting this can affect the longevity of the optical system.

Warning about placing the projector in a high position

- When placing the projector in a high position, ensure that it is secured carefully to avoid personal injury caused by the projector falling down.

Do not subject the projector to hard impact and/or vibration.

- Protect the lens so as not to hit or damage the surface of the lens.

Rest your eyes occasionally.

- Continuously watching the screen for long hours will cause eye strain. Be sure to occasionally rest your eyes.

Avoid locations with extremes of temperature.

- The operating temperature of the projector is from 41°F to 95°F (+5°C to +35°C).
- The storage temperature of the projector is from -4°F to 140°F (-20°C to +60°C).

Do not block the exhaust and intake vents.

- Allow at least 11 ¹³/₁₆ inches (30 cm) of space between the exhaust vent and the nearest wall or obstruction.
- Be sure that the intake vent and the exhaust vent are not obstructed.
- If the cooling fan becomes obstructed, a protection circuit will automatically put the projector into standby mode to prevent overheat damage. This does not indicate a malfunction. (See pages 48 and 49.) Remove the projector power cord from the wall outlet and wait at least 10 minutes. Place the projector where the intake and exhaust vents are not blocked, plug the power cord back in and turn on the projector. This will return the projector to the normal operating condition.

- When turning off the projector, the cooling fan runs to decrease the internal temperature for a while. Unplug the power cord after the cooling fan stops. The period the cooling fan runs will vary, depending on the circumstances and the internal temperature.

Caution regarding usage of the projector

- When using the projector, be sure not to subject it to hard impact and/or vibration, as this can result in damage. Take extra care with the lens. Before moving the projector, be sure to unplug the power cord from the wall outlet, and disconnect any other cables connected to it.
- Do not carry the projector by holding the lens.
- When storing the projector, re-attach the lens cap. (See page 11).
- Do not expose the projector to direct sunlight or place next to heat sources. Doing so may affect the cabinet color or cause deformation of the plastic cover.

Other connected equipment

- When connecting a computer or other audio-visual equipment to the projector, make the connections AFTER unplugging the power cord of the projector from the AC outlet and turning off the equipment to be connected.
- Please read the operation manuals of the projector and the equipment to be connected for instructions on how to make the connections.

Using the projector in other countries

- The power supply voltage and the shape of the plug may vary depending on the region or country you are using the projector in. When using the projector overseas, be sure to use an appropriate power cord for the country you are in.

Temperature monitor function



- If the projector starts to overheat due to setup problems or blockage of the air vents, "⊗" and "TEMP." will illuminate in the lower left corner of the picture. If the temperature continues to rise, the lamp will turn off, the temperature warning indicator on the projector will blink, and after a 90-second cooling-off period the projector will enter standby mode. Refer to "Maintenance Indicators" on page 48 for details.

Info

- The cooling fan regulates the internal temperature, and its performance is automatically controlled. The sound of the fan may change during projector operation due to changes in the fan speed. This does not indicate malfunction.
- Do not unplug the power cord during projection or cooling fan operation. This can cause damage due to rise in internal temperature, as the cooling fan also stops.

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KEYSTONE	Zealand and Oceania		
(6" (1.8 m))	(6" (1.8 m))		
QACBA036WJPZ	QACCLA018WJPZ		
Power cord that corresponds to the wall outlet in your country.			

Accessories

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RS-232C adaptor (5 57/64" (15 cm))

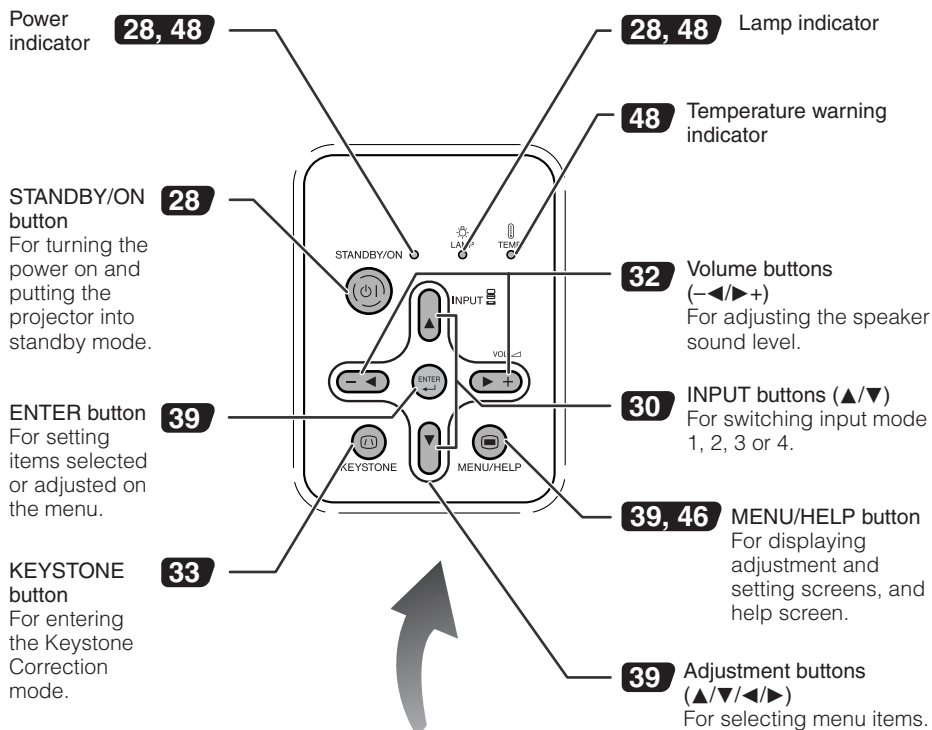
AN-A1RS

Part Names and Functions

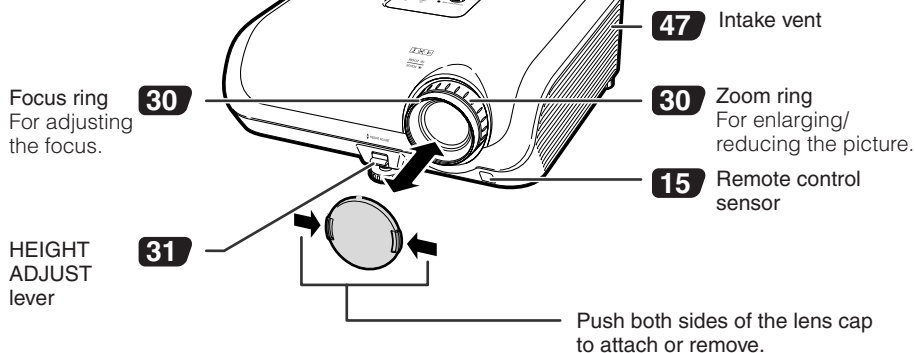
Numbers in **■** refer to the main pages in this operation manual where the topic is explained.

Projector

Top View



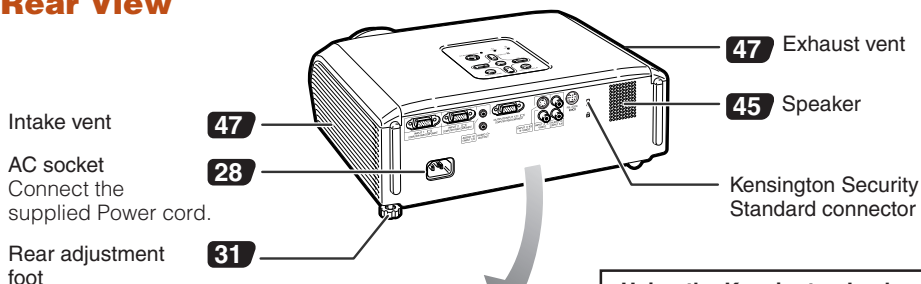
Front View



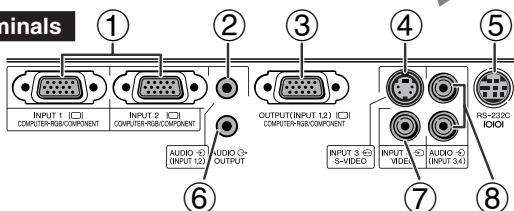
Part Names and Functions (Continued)

Numbers in **■** refer to the main pages in this operation manual where the topic is explained.

Rear View



Terminals



Using the Kensington Lock

- This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the projector.

Terminal	Description	Page
①	INPUT 1, 2 terminal ■ Connecting video equipment with component output terminal (DVD player, DTV decoder, DVD recorder with hard disc, etc.).	23
	■ Connecting the computer.	25
②	AUDIO (INPUT 1, 2) terminal Connecting an audio cable (Shared audio input terminal for INPUT 1 and 2).	23 25
③	OUTPUT (INPUT 1, 2) terminal Connecting the monitor when you want to simultaneously watch the projection image on the monitor. (Shared computer RGB and component signals output terminal for INPUT 1 and 2).	26
④	INPUT 3 terminal Connecting video equipment with S-video output terminal (VCR, DVD player, etc.).	24
⑤	RS-232C terminal Connecting the computer to control the projector.	27
⑥	AUDIO OUTPUT terminal Connecting to an amplifier or other audio equipment with an audio cable (commercially available) (Shared audio output terminal for INPUT 1, 2, 3 and 4).	26
⑦	INPUT 4 terminal Connecting video equipment without S-video output terminal.	24
⑧	AUDIO (INPUT 3, 4) terminal Connecting an audio cable (Shared audio input terminal for INPUT 3 and 4).	24

Usable Range

The remote control can be used to control the projector within the ranges shown in the illustration.

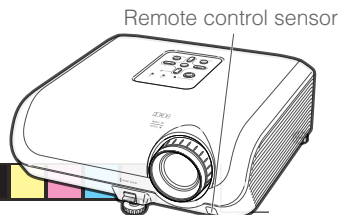
Note

- The signal from the remote control can be reflected off a screen for easy operation. However, the effective distance of the signal may differ depending on the screen material.

When using the remote control

- Ensure that you do not drop, expose to moisture or high temperature.
- The remote control may malfunction under a fluorescent lamp. In this case, move the projector to another place.

refer to the main pages in this operation manual where the topic

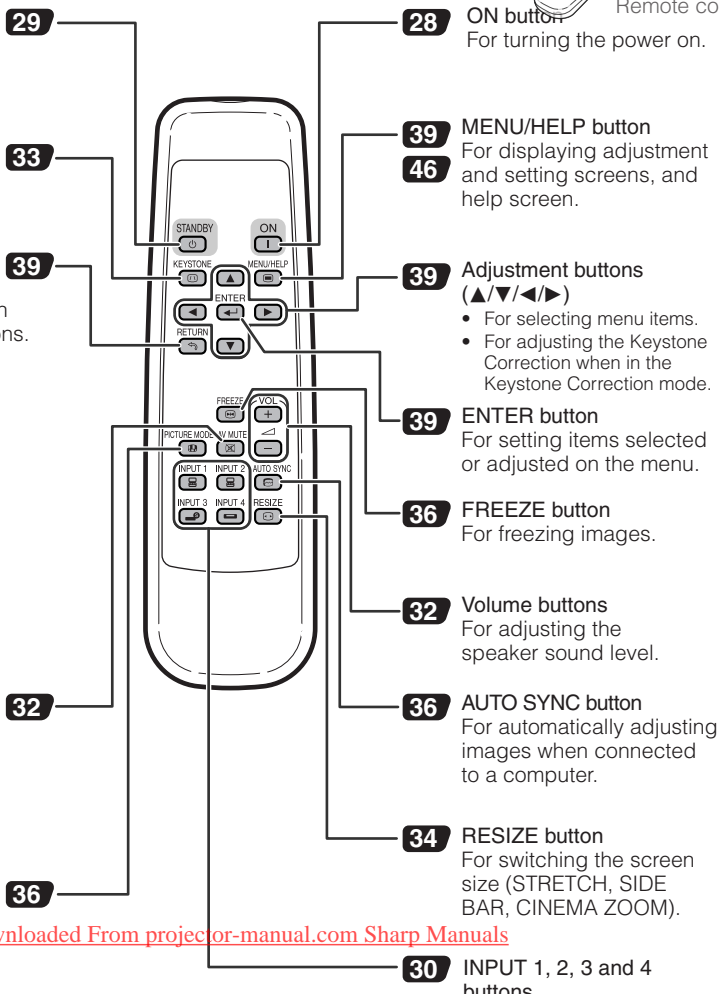


Remote control signal transmitters



Remote control

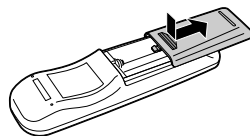
Introduction



Part Names and Functions (Continued)

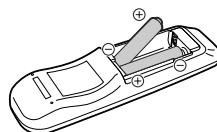
Inserting the Batteries

- 1 Press the ▲ mark on the cover and slide it in the direction of the arrow.

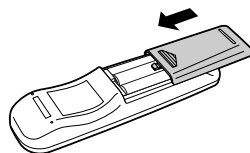


- 2 Insert the batteries.

- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.



- 3 Attach the cover and slide it until it clicks into place.



Incorrect use of the batteries may cause them to leak or explode. Please follow the precautions below.



Caution

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.
- Batteries of different types have different properties, therefore do not mix batteries of different types.
- Do not mix new and old batteries.
This may shorten the life of new batteries or may cause old batteries to leak.
- Remove the batteries from the remote control once they have run out, as leaving them in can cause them to leak.
Battery fluid from leaked batteries is harmful to skin, therefore ensure that you first wipe them and then remove them using a cloth.
- The batteries included with this projector may run down in a short period, depending on how they are kept. Be sure to replace them as soon as possible with new batteries.
- Remove the batteries from the remote control if you will not be using the remote control for a long time.
- Comply with the rules (ordinance) of each local government when disposing of worn-out batteries.

Usable Range

The remote control can be used to control the projector within the ranges shown in the illustration.

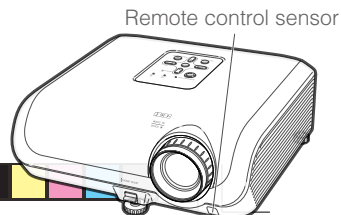
Note

- The signal from the remote control can be reflected off a screen for easy operation. However, the effective distance of the signal may differ depending on the screen material.

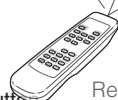
When using the remote control

- Ensure that you do not drop, expose to moisture or high temperature.
- The remote control may malfunction under a fluorescent lamp. In this case, move the projector to another place.

refer to the main pages in this operation manual where the topic



Remote control signal transmitters



Remote control

Introduction

29

28

ON button
For turning the power on.

33

39

MENU/HELP button
For displaying adjustment and setting screens, and help screen.

46

39

39

Adjustment buttons (P/R/O/Q)
• For selecting menu items.
• For adjusting the Keystone Correction when in the Keystone Correction mode.

39

ENTER button
For setting items selected or adjusted on the menu.

36

FREEZE button
For freezing images.

32

32

Volume buttons
For adjusting the speaker sound level.

36

AUTO SYNC button
For automatically adjusting images when connected to a computer.

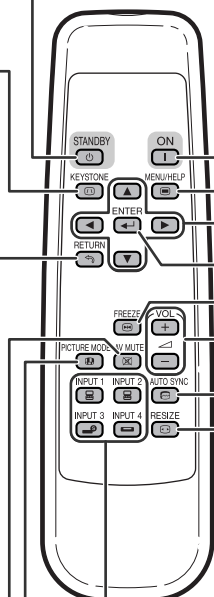
34

RESIZE button
For switching the screen size (STRETCH, SIDE BAR, CINEMA ZOOM).

36

30

INPUT 1, 2, 3 and 4 buttons



Product type Projector
Model XV-Z100
Video system NTSC3.58/NTSC4.43/PAL/PAL-M/PAL-N/PAL-60/SECAM/DTV480P/DTV480P/DTV540P/DTV576P/DTV720P/DTV1035I/DTV1080I/DTV1080I-50

Display method Single Chip Digital Micromirror Device™ (DMD™) by Texas Instruments

DMD panel Panel size: 0.53" single chip DMD

No. of dots 1460,020 dots (13.4" (diag.) x 100 (V))

14.15" 200m lens, F2.42.6, f = 10.021.9 mm

Lens

Projection lamp 275 W DC lamp

Component input signal 15-pin mini D-sub connector

(INPUT1/2) Y: 1.0 Vp-p, sync negative, 75 terminated

Pa: 0.7 Vp-p, 75 terminated

Pb: 0.7 Vp-p, 75 terminated

Horizontal resolution 520 TV lines (DTV720P)

Computer RGB input 15-pin mini D-sub connector

(INPUT1/2)/output RGB separate/sync on green type analog input: 00.7 Vp-p, positive, 75 terminated

(OUTPUT) signal HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative)

VERTICAL SYNC. SIGNAL: Same as above

S-video input signal 4 pin mini DIN connector

Y (luminance signal): 1.0 Vp-p, sync negative, 75 terminated

C (chrominance signal): Burst 0.286 Vp-p, 75 terminated

Video input signal Video connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 terminated

(INPUT 4) terminated

Vertical frequency 4585 Hz

Horizontal frequency 1570 kHz

Pixel clock 12408 MHz

RGB output signal 9-pin mini DIN connector

0.5 mm minijack or RCA terminal: 0.5 Vrms, more than 22 k (stereo)

Audio output signal 0.5 mm minijack: 0.5 Vrms, less than 2.2 k

(AUDIO OUTPUT 1-4)

Speaker system 4 cm 2.85 cm oval 1 FREEZE

Rated voltage AC 100-240 V

Input current 3.6 A

Rated frequency 50/60 Hz

Power consumption (standby) 350 W (Lamp Setting "Bright")/

305 W (Lamp Setting "Eco + Quiet") with AC 100 V

330 W (Lamp Setting "Bright")/

285 W (Lamp Setting "Eco + Quiet") with AC 240 V

Power consumption (standby) 5 W (AC 100 V) - 5 W (AC 240 V)

Heat dissipation 1.315 BTU/hour (Lamp Setting "Bright")/

1.145 BTU/hour (Lamp Setting "Eco + Quiet") with AC 100 V

1.240 BTU/hour (Lamp Setting "Bright")/

1.070 BTU/hour (Lamp Setting "Eco + Quiet") with AC 240 V

Operating temperature 41°F to 95°F (+5°C to +35°C)

Storage temperature 4°F to 140°F (20°C to +55°C)

Caselet Plastic

Operation manual 36 page equipment.

Dimensions (approx.) 12 13/32" 4 19/64" 11 1/32" (315 (W) 109 (H) 280 (D) mm) (main body only)

Weight (approx.) 12 13/32" 4 47/64" 11 37/64" (315 (W) 120 (H) 294 (D) mm) (including adjustment foot and projecting parts)

8.6 lbs. (3.9 kg)

Remote control, Power cord for Europe, except U.K., Power cord for U.K. and

Singapore, Power cord for Australia, New Zealand and Oceania, 3 RCA to 15-pin

D-sub adaptor, 21 pin RCA conversion adaptor, Video cable, Operation

manual (supplied)

English is the factory default language. If you

want to change the on-screen display to another

language, please change the language according to

the operation manual.

Sharp reserves the right to make design and

specification changes without prior notice. The performance specifica-

tions indicated are nominal values of production units. There may be some deviations from

these values in individual units.

Lamp indicator

Power indicator

Auto input

Auto sync


Auto input

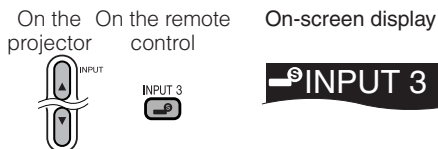
Auto sync





Auto input

4. Turn the video equipment on and start playback

5. Select the INPUT mode

Select the "INPUT 3" using the INPUT button on the projector or  INPUT 3 on the remote control.

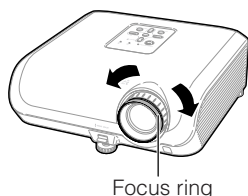


- When pressing the INPUT button on the projector, input mode switches in the following order: **INPUT1 ↔ INPUT2 ↔ INPUT3 ↔ INPUT4**
- When using the remote control, press the  INPUT 1 /  INPUT 2 /  INPUT 3 /  INPUT 4 button to switch the INPUT mode.

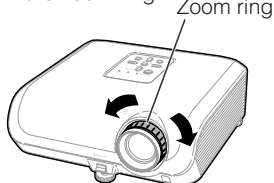
➔ P. 30

6. Adjust the focus, image size, and projector angle

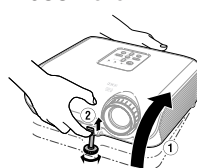
- Adjust the focus by turning the focus ring.



- Adjust the projection image size by turning the zoom ring.



- Adjust the projector angle using the HEIGHT ADJUST lever.

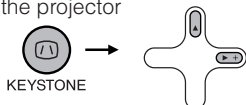


➔ PP. 30, 31

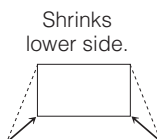
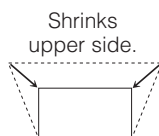
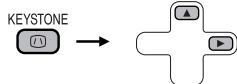
7. Correct trapezoidal distortion

Correcting trapezoidal distortion using the Keystone Correction.

On the projector



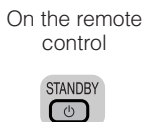
On the remote control




➔ P. 33

8. Turn the Power off

Press the STANDBY/ON button on the projector or the STANDBY button on the remote control, and then press the button again while the confirmation message is displayed, to put the projector into standby mode.



On-screen Display

 Enter STANDBY mode?
Yes : Press Again
No : Please Wait

- Unplug the power cord from the AC outlet after the cooling fan stops.

➔ P. 29

When using

Picture (Screen) size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]
Diag. ["]	Width	Height	Minimum [L1]	Maximum [L2]	
300 (762 cm)	240 (610 cm)	180 (457 cm)	32 0 (8.3 m)	30 0 (7.6 m)	34 31/32 (89 cm)
270 (686 cm)	216 (549 cm)	162 (411 cm)	28 9 (7.4 m)	26 4 (6.6 m)	31 15/32 (80 cm)
250 (635 cm)	200 (508 cm)	150 (381 cm)	26 8 (8.1 m)	30 10 (9.4 m)	29 9/64 (74 cm)
200 (508 cm)	160 (406 cm)	120 (305 cm)	21 4 (6.5 m)	24 8 (7.5 m)	23 5/16 (59 cm)
150 (381 cm)	120 (305 cm)	90 (229 cm)	16 0 (4.9 m)	18 6 (5.6 m)	17 31/64 (44 cm)
100 (254 cm)	80 (203 cm)	60 (152 cm)	10 8 (3.3 m)	12 4 (3.8 m)	11 21/32 (30 cm)
80 (203 cm)	64 (163 cm)	48 (122 cm)	8 6 (2.6 m)	9 10 (3.0 m)	9 21/64 (24 cm)
70 (178 cm)	56 (142 cm)	42 (107 cm)	7 6 (2.3 m)	8 8 (2.6 m)	8 5/32 (21 cm)
60 (152 cm)	48 (122 cm)	36 (91 cm)	6 5 (2.0 m)	7 5 (2.3 m)	7 (18 cm)
30 (76 cm)	32 (81 cm)	24 (61 cm)	4 3 (1.3 m)	4 11 (1.5 m)	4 21/32 (12 cm)

on (PRJ) Mode

an use any of the 4 projection modes, shown in the diagram below. Select the mode
te for the projection setting in use. (You can set the PRJ mode in "SCN-ADJ" menu.

ted, front projection

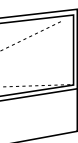
■ Ceiling mounted, front projection

Note

- ¥ Refer to page 18 concerning Projection distance [L] and Distance from the lens center to the bottom of the image [H].
- ¥ Allow a margin of error in the values in the diagrams above.
- ¥ Values with a minus (-) sign indicate the distance from the lens center below the bottom of the image.

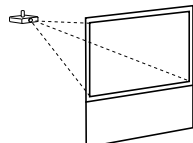
Front"

nted, rear projection
slucent screen)



Menu item → "Ceiling + Front"

■ Ceiling mounted, rear projection
(with a translucent screen)



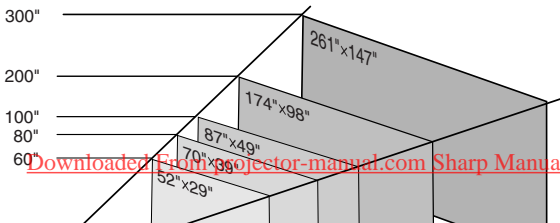
Rear"

Menu item → "Ceiling + Rear"

of the Projection Image Size and Projection Distance

ETCH Mode (16:9)

ture Size



Setup



Setting up the Projector (Continued)

Screen Size and Projection Distance

When using a wide screen (16:9) and projecting 16:9 image

Picture (Screen) size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	
300" (762 cm)	261" (664 cm)	147" (374 cm)	34' 10" (10.6 m)	40' 4" (12.3 m)	- 38 ³ / ₃₂ " (- 97 cm)
270" (686 cm)	235" (598 cm)	132" (336 cm)	31' 4" (9.6 m)	36' 4" (11.1 m)	- 34 ⁹ / ₃₂ " (- 87 cm)
250" (635 cm)	218" (553 cm)	123" (311 cm)	29' 1" (8.9 m)	33' 7" (10.2 m)	- 31 ⁴⁷ / ₆₄ " (- 81 cm)
200" (508 cm)	174" (443 cm)	98" (249 cm)	23' 3" (7.1 m)	26' 11" (8.2 m)	- 25 ²⁵ / ₆₄ " (- 64 cm)
150" (381 cm)	131" (332 cm)	74" (187 cm)	17' 5" (5.3 m)	20' 2" (6.1 m)	- 19 ³ / ₆₄ " (- 48 cm)
100" (254 cm)	87" (221 cm)	49" (125 cm)	11' 7" (3.5 m)	13' 5" (4.1 m)	- 12 ⁴⁵ / ₆₄ " (- 32 cm)
80" (203 cm)	70" (177 cm)	39" (100 cm)	9' 4" (2.8 m)	10' 9" (3.3 m)	- 10 ⁵ / ₃₂ " (- 26 cm)
70" (178 cm)	61" (155 cm)	34" (87 cm)	8' 2" (2.5 m)	9' 5" (2.9 m)	- 8 ⁵⁷ / ₆₄ " (- 23 cm)
60" (152 cm)	52" (133 cm)	29" (75 cm)	7' 0" (2.1 m)	8' 1" (2.5 m)	- 7 ⁵ / ₈ " (- 19 cm)
40" (102 cm)	35" (89 cm)	20" (50 cm)	4' 8" (1.4 m)	5' 5" (1.6 m)	- 5 ⁵ / ₆₄ " (- 13 cm)

χ: Picture size (diag.) (in/cm)

L: Projection distance (ft/m)

L1: Minimum projection distance (ft/m)

L2: Maximum projection distance (ft/m)

H: Distance from the lens center to the bottom of the image (in/cm)

The formula for picture size and projection distance

[Feet/inches]

L1 (ft) = 0.03541χ / 0.3048

L2 (ft) = 0.04098χ / 0.3048

H (in) = - 0.32249χ / 2.54

[m/cm]

L1 (m) = 0.03541χ

L2 (m) = 0.04098χ

H (cm) = - 0.32249χ

When using a normal screen (4:3) and projecting 4:3 image (SIDE BAR Mode)

Picture (Screen) size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	
300" (762 cm)	240" (610 cm)	180" (457 cm)	42' 8" (13.0 m)	49' 4" (15.0 m)	- 46 ³⁹ / ₆₄ " (- 118 cm)
270" (686 cm)	216" (549 cm)	162" (411 cm)	38' 5" (11.7 m)	44' 5" (13.5 m)	- 41 ⁶¹ / ₆₄ " (- 107 cm)
250" (635 cm)	200" (508 cm)	150" (381 cm)	35' 7" (10.8 m)	41' 2" (12.5 m)	- 38 ²⁷ / ₃₂ " (- 99 cm)
200" (508 cm)	160" (406 cm)	120" (305 cm)	28' 5" (8.7 m)	32' 11" (10.0 m)	- 31 ⁵ / ₆₄ " (- 79 cm)
150" (381 cm)	120" (305 cm)	90" (229 cm)	21' 4" (6.5 m)	24' 8" (7.5 m)	- 23 ⁵ / ₁₆ " (- 59 cm)
100" (254 cm)	80" (203 cm)	60" (152 cm)	14' 3" (4.3 m)	16' 5" (5.0 m)	- 15 ¹⁷ / ₃₂ " (- 39 cm)
80" (203 cm)	64" (163 cm)	48" (122 cm)	11' 5" (3.5 m)	13' 2" (4.0 m)	- 12 ⁷ / ₁₆ " (- 32 cm)
70" (178 cm)	56" (142 cm)	42" (107 cm)	9' 11" (3.0 m)	11' 6" (3.5 m)	- 10 ⁷ / ₈ " (- 28 cm)
60" (152 cm)	48" (122 cm)	36" (91 cm)	8' 6" (2.6 m)	9' 10" (3.0 m)	- 9 ²¹ / ₆₄ " (- 24 cm)
40" (102 cm)	32" (81 cm)	24" (61 cm)	5' 8" (1.7 m)	6' 7" (2.0 m)	- 6 ⁷ / ₃₂ " (- 16 cm)

χ: Picture size (diag.) (in/cm)

L: Projection distance (ft/m)

L1: Minimum projection distance (ft/m)

L2: Maximum projection distance (ft/m)

H: Distance from the lens center to the bottom of the image (in/cm)

The formula for picture size and projection distance

[Feet/inches]

L1 (ft) = 0.04334χ / 0.3048

L2 (ft) = 0.05015χ / 0.3048

H (in) = - 0.39468χ / 2.54

[m/cm]

L1 (m) = 0.04334χ

L2 (m) = 0.05015χ

H (cm) = - 0.39468χ

When using

Picture (Screen) size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	
300" (762 cm)	240" (610 cm)	180" (457 cm)	32' 0" (9.8 m)	30' 0" (9.1 m)	-34 31/34" (-89 cm)
270" (686 cm)	216" (549 cm)	162" (411 cm)	28' 9" (8.8 m)	24' 4" (7.4 m)	-31 15/32" (-80 cm)
250" (635 cm)	200" (508 cm)	150" (381 cm)	26' 8" (8.1 m)	30' 10" (9.4 m)	-29 9/64" (-74 cm)
200" (508 cm)	160" (406 cm)	120" (305 cm)	21' 4" (6.5 m)	24' 8" (7.5 m)	-23 5/16" (-59 cm)
150" (381 cm)	120" (305 cm)	90" (229 cm)	16' 0" (4.9 m)	18' 6" (5.6 m)	-17 31/64" (-44 cm)
100" (254 cm)	80" (203 cm)	60" (152 cm)	10' 8" (3.3 m)	12' 4" (3.8 m)	-11 21/32" (-30 cm)
80" (203 cm)	64" (163 cm)	48" (122 cm)	8' 6" (2.6 m)	9' 10" (3.0 m)	-9 21/64" (-24 cm)
70" (178 cm)	56" (142 cm)	42" (107 cm)	7' 6" (2.3 m)	8' 8" (2.6 m)	-8 5/32" (-21 cm)
60" (152 cm)	48" (122 cm)	36" (91 cm)	6' 5" (2.0 m)	7' 5" (2.3 m)	-7" (-18 cm)
40" (102 cm)	32" (81 cm)	24" (61 cm)	4' 3" (1.3 m)	4' 11" (1.5 m)	-4 21/32" (-12 cm)

(PRJ) Mode

an use any of the 4 projection modes, shown in the diagram below. Select the mode
te for the projection setting in use. (You can set the PRJ mode in **Setup/ADJ** menu.

Projection distance (ft/m)
L1: Minimum projection distance (ft/m)
L2: Maximum projection distance (ft/m)
H: Distance from the lens center to the bottom of the image (in/cm)

Select the mode
L1 (ft) = 0.0325χ / 0.3048
L2 (ft) = 0.03761χ / 0.3048
H (in) = -0.29601χ / 2.54

Projection size and projection distance
[m/cm]
L1 (m) = 0.0325χ
L2 (m) = 0.03761χ
H (cm) = -0.29601χ

ted, front projection

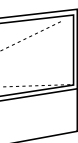
Ceiling mounted, front projection

Note

- Refer to page 18 concerning "Projection distance [L]" and "Distance from the lens center to the bottom of the image [H]"
- Allow a margin of error in the values in the diagrams above.
- Values with a minus (-) sign indicate the distance from the lens center below the bottom of the image.

Front

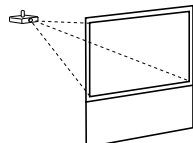
nted, rear projection
(translucent screen)



Rear

Menu item Ceiling + Front

Ceiling mounted, rear projection
(with a translucent screen)

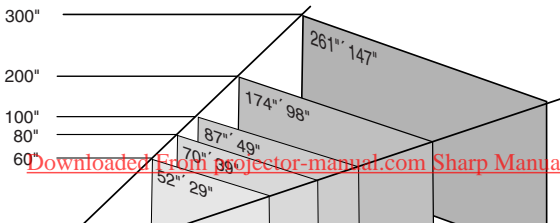


Menu item Ceiling + Rear

of the Projection Image Size and Projection Distance

ETCH Mode (16:9)

ture Size



Setup



Product type Projector
Model XV-2100
Video system NTSC3.58/NTSC4.43/PAL/PAL-M/PAL-N/PAL-60/SECAM/DTV480P/DTV480P/
DTV540P/DTV576P/DTV720P/DTV1035I/DTV1080I/DTV1080I-50

Display method Single Chip Digital Micromirror Device™ (DMD™) by Texas Instruments

DMD panel Panel size: 0.53" 1-chip DMD

No. of dots 1460,020 dots (1344 (H) × 1080 (V))
14.15" zoom lens, F2.42.6, f = 10,021.9 mm

Lens 275-W DC lamp

Projection lamp 15-pin mini D-sub connector
Component input signal Y: 1.0 Vp-p, sync negative, 75 terminated
Pb: 0.7 Vp-p, 75 terminated
Pa: 0.7 Vp-p, 75 terminated

Horizontal resolution 520 TV lines (DTV720P)

Computer RGB input 15-pin mini D-sub connector

(INPUT 1/2)/output RGB separate/sync on green type analog input: 00.7 Vp-p, positive, 75 terminated

(OUTPUT) signal HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative)

VERTICAL SYNC. SIGNAL: Same as above

S-video input signal 4-pin mini DIN connector

Moving Image (INPUT 3) Y (luminance signal): 1.0 Vp-p, sync negative, 75 terminated

C (chrominance signal): Burst 0.286 Vp-p, 75 terminated

Video input signal RCA connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 terminated

(INPUT 4) terminated

Vertical frequency 4585 Hz

Horizontal frequency 1570 kHz

Pixel clock 12408 MHz

RGB 252C terminal 9-pin mini DIN connector

Video output signal ø3.5 mm minijack or RCA terminal: 0.5 Vrms, more than 22 k (stereo)

(AUDIO OUTPUT 1-4) ø3.5 mm minijack: 0.5 Vrms, less than 2.2 k

Speaker system 4 cm 285 cm oval 1 FREEZE

Rated voltage AC 100/240 V

Input current 3.6 A

Rated frequency 50/60 Hz

Power consumption (standby) 350 W (Lamp Setting: Bright)/

305 W (Lamp Setting: Eco + Quiet) with AC 100 V

330 W (Lamp Setting: Bright) with AC 240 V

335 W (Lamp Setting: Eco + Quiet) with AC 240 V

Power consumption (standby) 350 W (Lamp Setting: Bright)/

305 W (Lamp Setting: Eco + Quiet) with AC 100 V

330 W (Lamp Setting: Bright) with AC 240 V

335 W (Lamp Setting: Eco + Quiet) with AC 240 V

Operating temperature 41°F to 95°F (+5°C to +35°C)

Storage temperature 4°F to 140°F (20°C to +55°C)

Material Plastic

Dimensions (approx.) 12 13/32 4 19/64 11 1/32 (315 (W) 109 (H) 280 (D) mm) (main body only)

Weight (approx.) 8.6 lbs. (3.9 kg)

Remote control, Power cord for Europe, except U.K., Power cord for U.K. and

Singapore, Power cord for Australia, New Zealand and Oceania, 3 RCA to 15-pin

D-sub adaptor, 21 pin RCA conversion adaptor, Video cable, Operation

manual (supplied) want to change the on-screen display to another

language, change the language according to

the procedure on page 40

Product improvement without prior notice. The performance specifica-

tion figures indicated are nominal values of production units. There may be some deviations from

these values in individual units.

Lamp indicator

Power indicator

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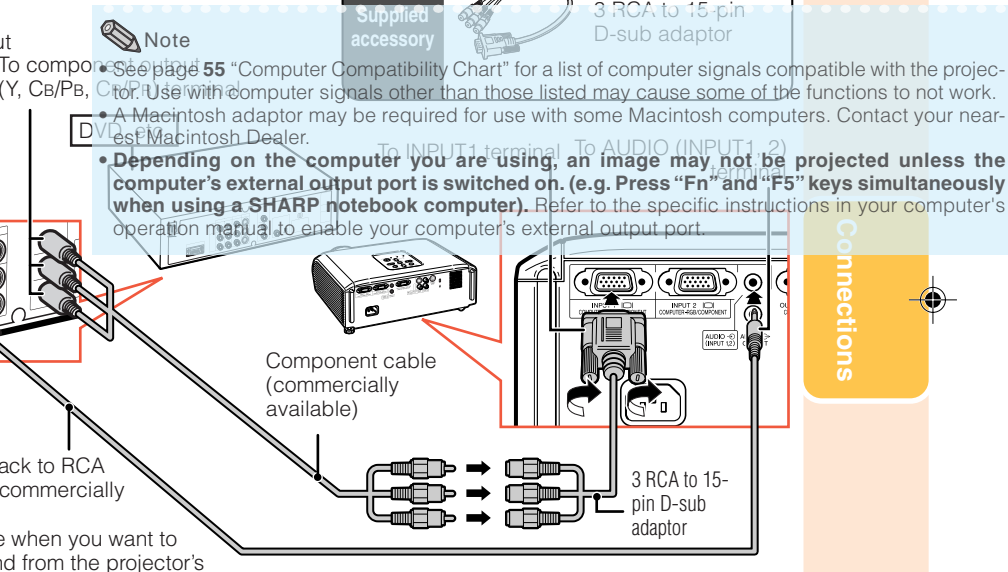
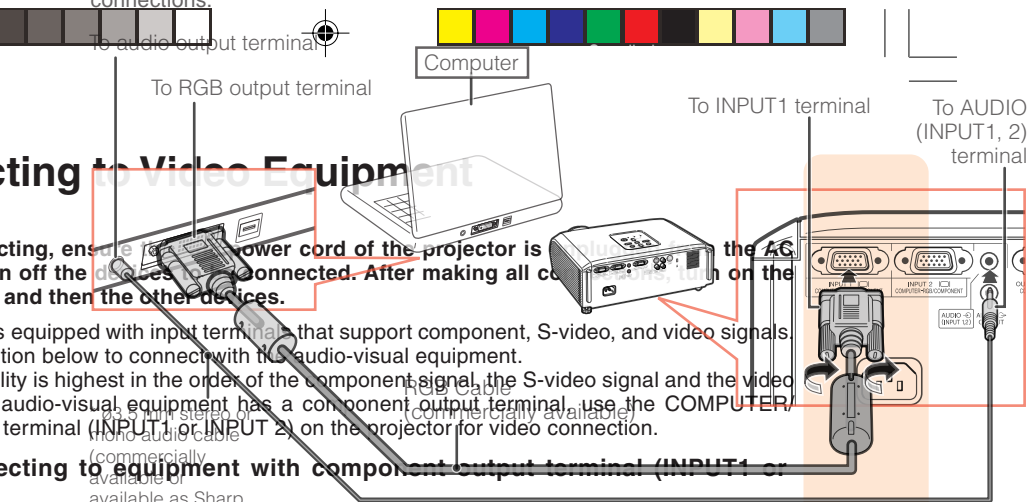
Sharp Manuals

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When connecting a computer, ensure that it is the last device to be turned on after all the connections are made.

Ensure that you have read the operation manuals of the devices to be connected before making connections.



Using the Menu Screen (Continued)

- 3** Press P or R and select "Bright" to adjust.
 ¥The selected item is highlighted.

Picture	SCR - ADJ	PRJ - ADJ	Help
Picture Mode		Standard	
Contrast	[0]	-	+
Bright	[0]	-	+
Color	[0]	-	+
Tint	[0]	-	+
Sharp	[0]	-	+
CLR Temp	[7500 K]	-	+
Bright Boost	[1]	-	+
Progressive	3D Progressive		
Lamp Setting	Bright		
Reset			
Single ADJ			END

Video Equipment (Continued)

Equipment with S-video output terminal (INPUT3)

To adjust the projected image while watching it, press h ENTER.

¥The selected item, e.g. Sharp, is displayed by itself at the bottom of the screen.

¥When pressing P or R, the following item (Color after Bright) will be displayed.

Picture	SCR - ADJ	PRJ - ADJ	Help
Resize	Stretch		
Keystone	[0]	-	+
OSD Display	On		
Background	Logo		

Note: S video cable (commercially available)








¥Press h ENTER again to return to the previous screen.

terminal	ENTER
The revolution is by itself	
Picture	0
Bright	-
SEL./ADJ.	Rtn. Menu
END	

- 4** Press O or Q to adjust the item selected.

¥The adjustment is stored.

Equipment with video output terminal (INPUT4)

Picture	SCR - ADJ	PRJ - ADJ	Help
Picture Mode	Standard		
Contrast	[0]		+
Bright	[15]		+
Color	[0]		+
Tint	[0]		+
Sharp	[0]		+
CLR Temp	[7500 K]		+
Bright Boost	[1]		+
Progressive	3D Progressive		
Lamp Setting	Bright		
◆◆◆ Reset			
SEL./ADJ.		ENTER	END



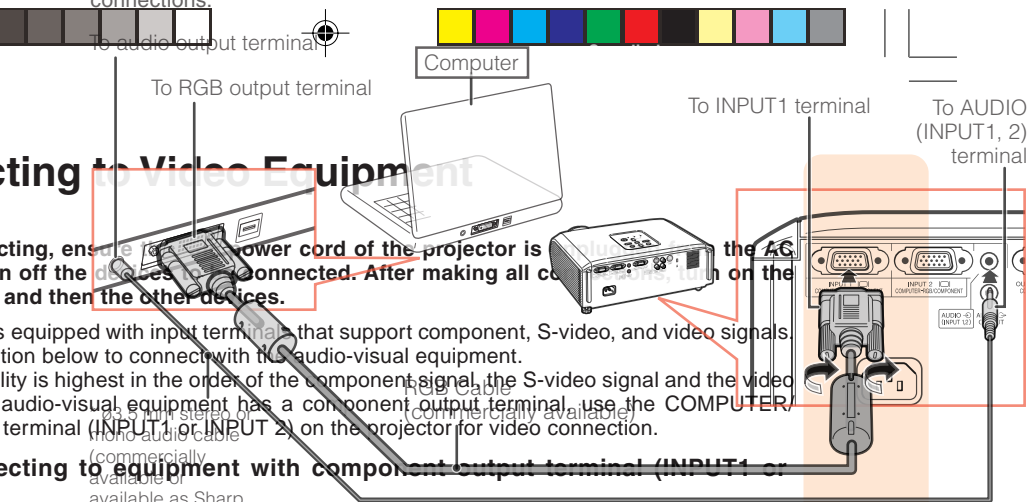
- 5** Press B MENU/HELP.

¥The menu screen will disappear.

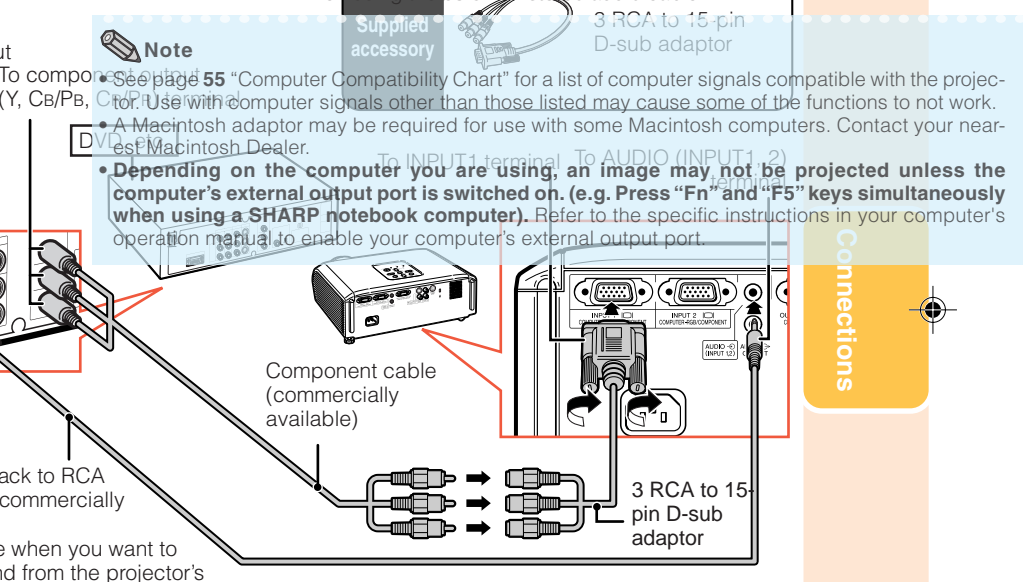
Note: Menu buttons do not function while the projector is operating the Auto Sync, FREEZE or MUTE functions.

When connecting a computer, ensure that it is the last device to be turned on after all the connections are made.

Ensure that you have read the operation manuals of the devices to be connected before making connections.

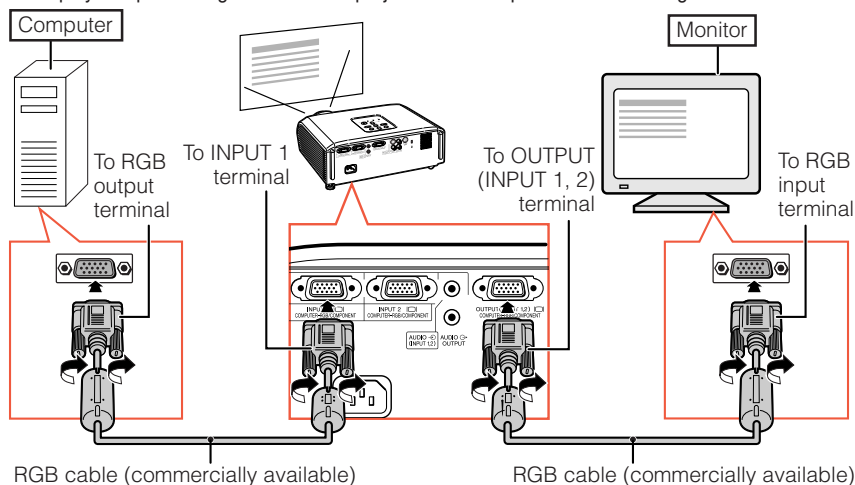


When connecting to equipment with component output terminal (INPUT1 or INPUT 2), use the component cable (commercially available as Sharp service part QCNWGA038WJPZ).



Connecting to a Monitor with RGB Input Terminal

You can display computer images on both the projector and a separate monitor using two sets of RGB cables.

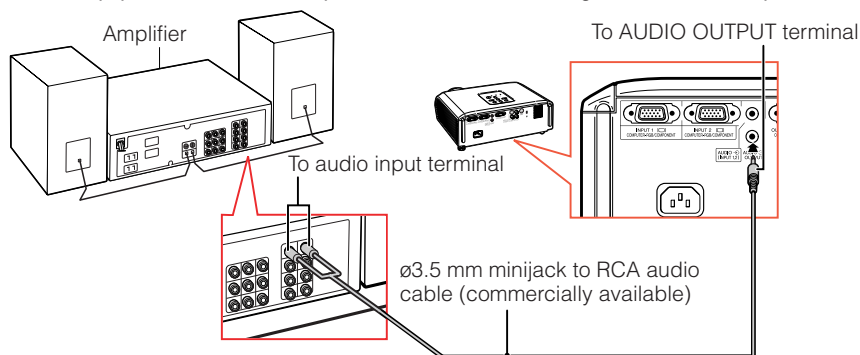


Note

- RGB signals and Component signals can be output to the monitor.

Connecting to an Amplifier or Other Audio Equipment

The audio input from devices connected to the AUDIO INPUT terminals on the projector can be output to audio equipment. The audio output is determined according to the selected input mode.



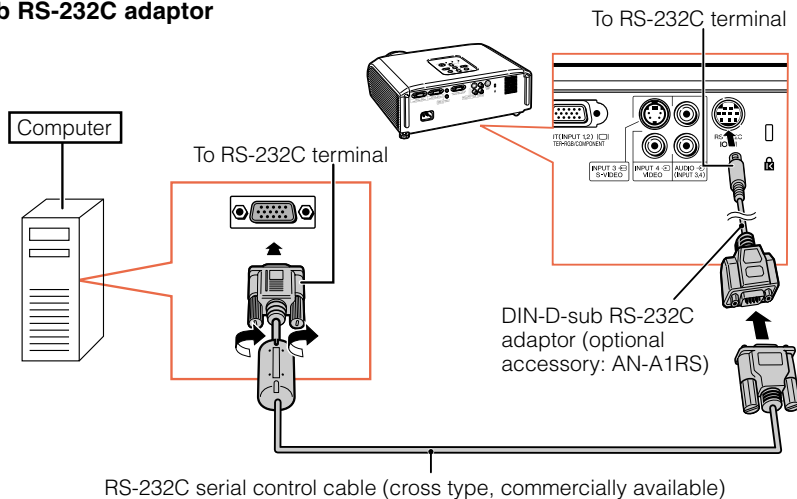
Note

- ø3.5 mm minijack to RCA audio cable (commercially available) is required.
- Before connecting, ensure that both the projector and the audio equipment to be connected are turned off.
- When turning off the projector while it is connected to audio equipment, ensure that you turn off the audio equipment first and then the projector.
- The volume level of external equipment changes in accordance with the volume level of the projector.

Controlling the Projector by a Computer

When the RS-232C terminal on the projector is connected to a computer with a DIN-D-sub RS-232C adaptor (optional accessory: AN-A1RS) and an RS-232C serial control cable (cross type, commercially available), the computer can be used to control the projector and check the status of the projector. See page 54 for detail.

When connecting to a computer using an RS-232C serial control cable and a DIN-D-sub RS-232C adaptor



Note

- The RS-232C function may not operate if your computer terminal is not correctly set up. Refer to the operation manual of the computer for details.
- See page 53 for connection of an RS-232C serial control cable.

Info

- Do not connect the RS-232C cable to a port other than the RS-232C terminal on the computer. This may damage your computer or projector.
- Do not connect or disconnect an RS-232C serial control cable to or from the computer while it is on. This may damage your computer.

Product type Projector
Model XV-Z100
Video system NTSC3.58/NTSC4.43/PAL/PAL-M/PAL-N/PAL-60/SECAM/DTV480P/DTV480P/
DTV540P/DTV576i/DTV576P/DTV720P/DTV1035i/DTV1080i/DTV1080i-50
Display method Single Chip Digital Micromirror Device™ (DMD™) by Texas Instruments

DMD panel Panel size: 0.53" 1-chip DMD
No. of dots 1460,020 dots (1344 (H) × 1080 (V))
Lens 11-15" zoom lens, F2.42.6, f = 10,021.9 mm

Projection lamp 275 W DC lamp
Component input signal 15-pin mini D-sub connector
(INPUT 1/2) Y: 1.0 Vp-p, sync negative, 75 terminated
P: 0.7 Vp-p, 75 terminated
P: 0.7 Vp-p, 75 terminated
Horizontal resolution 520 TV lines (DTV720P)
Computer RGB input 15-pin mini D-sub connector
(INPUT 1/2)/output RGB separate/sync on green type analog input: 00.7 Vp-p, positive, 75 terminated
(OUTPUT) signal HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative)
VERTICAL SYNC. SIGNAL: Same as above

S-video input signal 4-pin mini DIN connector
(INPUT 1/2) Y (luminance signal): 1.0 Vp-p, sync negative, 75 terminated
C (chrominance signal): Burst 0.286 Vp-p, 75 terminated
Video input signal Video connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 terminated
(INPUT 4) terminated
Vertical frequency 4585 Hz
Horizontal frequency 1570 kHz
Pixel clock 12408 MHz
Audio input signal 9-pin mini DIN connector
Audio output signal 0.5 mm minijack or RCA terminal: 0.5 Vrms, more than 22 k (stereo)
0.5 mm minijack: 0.5 Vrms, less than 2.2 k

Speaker system 4 cm 28 mm oval
Rated voltage AC 100-240 V
Input current 3.6 A
Rated frequency 50/60 Hz
Power consumption 350 W (Lamp Setting "Eco + Quiet")
305 W (Lamp Setting "Eco + Quiet") with AC 100 V
330 W (Lamp Setting "Bright")
335 W (Lamp Setting "Eco + Quiet") with AC 240 V
Power consumption (standby) 5 W (AC 100 V) - 5 W (AC 240 V)

Power consumption (standby) 5 W (AC 100 V) - 5 W (AC 240 V)
Heat dissipation 1,315 BTU/hour (Lamp Setting "Bright")/
1,145 BTU/hour (Lamp Setting "Eco + Quiet") with AC 100 V
1,240 BTU/hour (Lamp Setting "Bright")/
1,070 BTU/hour (Lamp Setting "Eco + Quiet") with AC 240 V
Operating temperature 41°F to 95°F (+5°C to +35°C)
Storage temperature 4°F to 140°F (20°C to +55°C)
Storage humidity 38% RH
Dimensions (approx.) 12 13/32 4 19/64 11 1/32 (315 (W) 109 (H) 280 (D) mm) (main body only)
12 13/32 4 47/64 11 37/64 (315 (W) 120 (H) 294 (D) mm) (including adjustment foot and projecting parts)
Weight (approx.) 8.6 lbs. (3.9 kg)

Replacement parts Remote control, Power cord for Europe, except U.K., Power cord for U.K. and Singapore, Power cord for Australia, New Zealand and Oceania, 3 RCA to 15-pin D-sub adaptor, 21 pin RCA conversion adaptor, Video cable, Operation manual
English is the factory default language. If you want to change the on-screen display to another language, please refer to the manual.

As a power company, SHARP reserves the right to make design and specification changes without prior notice. The performance specifications indicated are nominal values of production units. There may be some deviations from these values in individual units.

Lamp indicator

Power indicator

For more information, please visit www.sharp-manual.com Sharp Manuals

Computer

		STRETCH	SIDE BAR
4:3 aspect ratio	SVGA (800 600)		
	XGA (1024 768)	854 480	640 480
	SXGA (1280 960)		
Other aspect ratios	SXGA (1400 1050)		
	SXGA (1280 1024)	854 480	640 480
	1280 720	854 480	

g Trapezoidal

Resolution lower than SVGA

Resolution higher than SVCE
The Correction can be set up to approximately ± 13 degrees and can also be set up to an angle of ± 13 degrees (when the resize to "STRETCH" (see page 34)).

A close-up photograph of the projector's control panel. The panel features several buttons, including 'SOURCE', 'POWER', 'MENU', 'ENTER', 'EXIT', 'F1', 'F2', 'F3', 'F4', 'F5', 'F6', 'F7', 'F8', 'F9', 'F10', 'F11', 'F12', 'F13', 'F14', 'F15', 'F16', 'F17', 'F18', 'F19', 'F20', 'F21', 'F22', 'F23', 'F24', 'F25', 'F26', 'F27', 'F28', 'F29', 'F30', 'F31', 'F32', 'F33', 'F34', 'F35', 'F36', 'F37', 'F38', 'F39', 'F40', 'F41', 'F42', 'F43', 'F44', 'F45', 'F46', 'F47', 'F48', 'F49', 'F50', 'F51', 'F52', 'F53', 'F54', 'F55', 'F56', 'F57', 'F58', 'F59', 'F60', 'F61', 'F62', 'F63', 'F64', 'F65', 'F66', 'F67', 'F68', 'F69', 'F70', 'F71', 'F72', 'F73', 'F74', 'F75', 'F76', 'F77', 'F78', 'F79', 'F80', 'F81', 'F82', 'F83', 'F84', 'F85', 'F86', 'F87', 'F88', 'F89', 'F90', 'F91', 'F92', 'F93', 'F94', 'F95', 'F96', 'F97', 'F98', 'F99', 'F100'. The 'KEYSTONE' button is highlighted with a red circle. The text 'KEYSTONE' is also visible on the screen.

Keystone Correction: Cutout area on which images cannot be projected.

You can also adjust the Keystone Correction by using the adjustment buttons on the projector.

TURN while the on-screen display correction mode is on return to the default setting.

Yes : Press **Yes**
No : Please Wait



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Image Projection



Switching the Input Mode

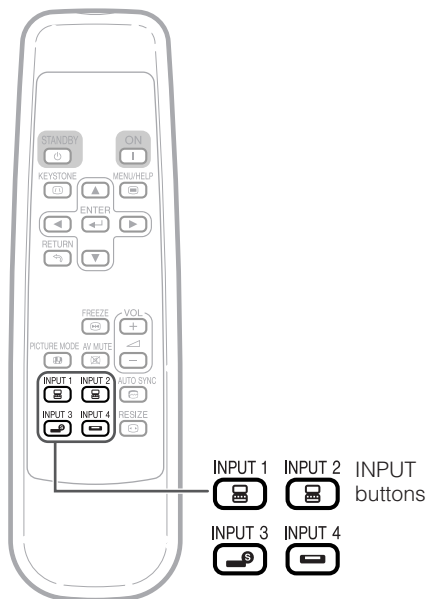
Select the appropriate input mode for the connected equipment.

Press  **INPUT 1**,  **INPUT 2**,  **INPUT 3** or  **INPUT 4** on the remote control to select the input mode.

- When pressing INPUT (/) on the projector, input mode switches in the following order:

 INPUT1  INPUT2  INPUT3  INPUT4 

- When "Auto Search" is set to "On", INPUT (/) on the projector functions as the Auto Search buttons. (See page 44.)



Adjusting the Projected Image

1 Adjusting the Focus

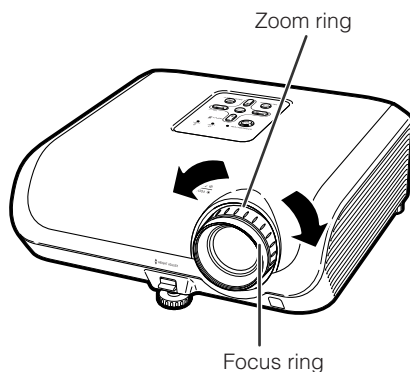
You can adjust the focus with the focus ring on the projector.

Rotate the focus ring to adjust the focus while watching the projected image.

2 Adjusting the Screen Size

You can adjust the screen size using the zoom ring on the projector.

Rotate the zoom ring to enlarge or shrink the screen size.



Computer

		STRETCH	SIDE BAR
4:3 aspect ratio	SVGA (800 600)		
	XGA (1024 768)	854 480	640 480
	SXGA (1280 960)		
	SXGA (1400 1050)		
Other aspect ratios	SXGA (1280 1024)	854 480	640 480
	1280 720	854 480	

g Trapezoidal

Resolution lower than SVGA

Resolution higher than SVGE

The Correction can be set up to approximately ± 13 degrees and can also be set up to an angle of ± 13 degrees (when the resize to "STRETCH" (see page 34)).

KEYSTONE

Keystone Correction: Cutout area on which images cannot be projected.
You can also adjust the Keystone Correction by using the adjustment buttons on the projector.

TURN while the on-screen display Correction mode is on return to the default setting.

Downloaded from project

Make small adjustments while adjusting the image using Keystone

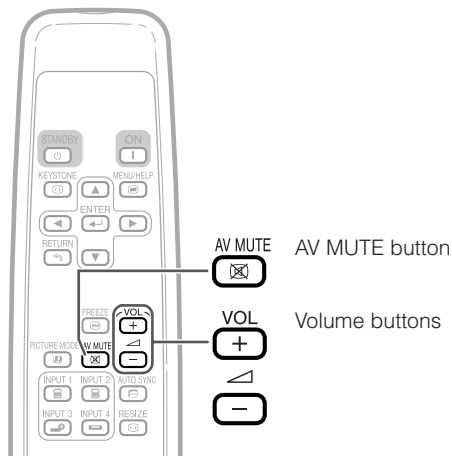
Image Projection (Continued)

Adjusting the Volume

Press \square/\square on the remote control or $\blacktriangleleft/\blacktriangleright$ on the projector to adjust the volume.

Note

- Pressing $\square/\blacktriangleleft$ will lower the volume.
- Pressing $\square/\blacktriangleright$ will raise the volume.
- When the projector is connected to external equipment, the volume level of the external equipment changes in accordance with the volume level of the projector. Set the projector's volume to the lowest level when turning the projector on/off or changing the input signal.
- When you do not want to output the sound from the projector's speaker while the projector is connected to external equipment, set "Speaker" in "PRJ-ADJ" menu to "Off". (See page 45.)



On-screen Display



Displaying the Black Screen and Turning off the Sound Temporarily

Press \square AV MUTE on the remote control to temporarily display a black screen and turn off the sound.

Note

- Pressing \square AV MUTE again will turn the projected image back on.

On-screen Display



Computer

		STRETCH	SIDE BAR
4:3 aspect ratio	SVGA (800 600)		
	XGA (1024 768)		
	SXGA (1280 960)		
	SXGA (1400 1050)		
Other aspect ratios	SXGA (1280 1024)	854 480	640 480
	1280 720	854 480	

Input Signal	Output screen image			
<div>Computer</div> <div>keystone</div> <div>Resolution lower than SVGA</div> <div>Projected either from bottom towards the top or the image becomes vertically. The function for keystone distortion is correction.</div>	<div>Image type</div> <div>STRETCH</div> <div>KEYSTONE</div> <div>KEYSTONE button</div> <div>Adjustment button (▲/▼/◀/▶)</div> <div>RETURN RETURN button</div> <div>4:3 aspect ratio</div>	<div>SIDE BAR</div> <div>On-screen display (Keystone Correction mode)</div>	<div>CINEMA ZOOM</div>	
<div>Resolution higher than SVGA</div> <div>On camera's tilted up to approximately ±13 degrees and set up to an angle of 0 degrees (when the resize CH" (see page 34)).</div> <div>STRETCH</div> <div>On-screen display (Keystone Correction mode)</div> <div>Adjustment button (▲/▼/◀/▶)</div> <div>RETURN RETURN button</div> <div>16:9 aspect ratio</div>	<div>On-screen display (Keystone Correction mode)</div> <div>Adjustment button (▲/▼/◀/▶)</div> <div>RETURN RETURN button</div> <div>16:9 aspect ratio</div>	<div>On-screen display (Keystone Correction mode)</div> <div>Adjustment button (▲/▼/◀/▶)</div> <div>RETURN RETURN button</div> <div>16:9 aspect ratio</div>	<div>On-screen display (Keystone Correction mode)</div> <div>Adjustment button (▲/▼/◀/▶)</div> <div>RETURN RETURN button</div> <div>16:9 aspect ratio</div>	

Cutout area on which images cannot be projected.

Shrinks lower side.
(Move the slide bar in the - direction.)

KEYSTONE

Downloaded from projector

Make small adjustments while adjusting the image using Keystone



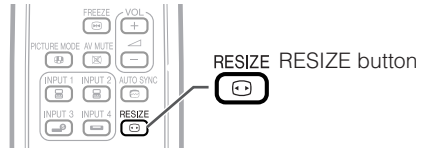
Image Projection (Continued)

Resize Mode

This function allows you to modify or customize the resize mode to enhance the input image. Depending on the input signal, you can choose “STRETCH”, “SIDE BAR” or “CINEMA ZOOM” image.

Press **RESIZE**.

- See page 43 for setting on menu screen.












VIDEO

- “STRETCH” is fixed when 540P, 720P or 1080I signals are entered.

Input Signal		Output screen image		
DVD / Video	Image type	STRETCH	SIDE BAR	CINEMA ZOOM
480I, 480P, 576I, 576P, NTSC, PAL, SECAM	 4:3 aspect ratio			
	 Letter box			
	 Squeezed			
	 16:9 aspect ratio			
540P, 720P, 1080I	 16:9 aspect ratio		—	—

: Cutout area on which images cannot be projected.

Computer

		STRETCH	SIDE BAR
 4:3 aspect ratio	 SVGA (800 × 600)	 854 × 480	 640 × 480
	 XGA (1024 × 768)		
	 SXGA (1280 × 960)		
	 SXGA+ (1400 × 1050)		
Other aspect ratios	 SXGA (1280 × 1024)	854 × 480	640 × 480
	 1280 × 720	854 × 480	—

Trapezoidal

Input Signal	Output screen image			
Computer	Image type	STRETCH	SIDE BAR	CINEMA ZOOM
Resolution lower than SVGA		<p>KEYSTONE KEYSTONE button</p> <p>Adjustment button (P/R/O/Q)</p> <p>RETURN RETURN button</p>		
Resolution higher than SVGA	<p>4:3 aspect ratio</p> <p>On-screen display (Keystone Correction mode)</p> <p>5:4 aspect ratio</p>			
Resolution higher than SXGA (1280 x 1024)	<p>On-screen display (Keystone Correction mode)</p> <p>16:9 aspect ratio</p>			

Cutout area on which images cannot be projected.

Shrinks lower side.
(Move the slide bar in the - direction.)

KEYSTONE

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Make small adjustments while adjusting the image using Keystone

Product type Projector
Model XV-Z100
Video system NTSC3.58/NTSC4.43/PAL/PAL-M/PAL-N/PAL-60/SECAM/DTV480P/DTV540P/DTV576P/DTV720P/DTV1035I/DTV1080I/DTV1080I-50

Display method Single Chip Digital Micromirror Device™ (DMD™) by Texas Instruments

DMD panel Panel size: 0.53" 1-chip DMD

No. of dots 1460,020 dots (324 (H) × 450 (V))
1-1.15" zoom lens, F2.4-2.6, f=19.0-21.9 mm

Lens Projection lamp 275-W DC lamp

Component input signal 15-pin mini D-sub connector
Y: 1.0 Vp-p, sync negative, 75 terminated
P: 0.7 Vp-p, 75 terminated

Horizontal resolution 520 TV lines (DTV720P)

Computer RGB input 15-pin mini D-sub connector

(INPUT 1/2)/output RGB separate/sync on green type analog input: 0-0.7 Vp-p, positive, 75 terminated

(OUTPUT) signal HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative)

VERTICAL SYNC. SIGNAL: Same as above

S-video input signal 4-pin mini DIN connector

Y (luminance signal): 1.0 Vp-p, sync negative, 75 terminated

C (chrominance signal): Burst 0.286 Vp-p, 75 terminated

Video input signal RCA connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 terminated

Vertical frequency 45-85 Hz

Horizontal frequency 15-70 kHz

Pixel clock 12-108 MHz

RGB output signal 9-pin mini DIN connector

0.35 mm minijack or RCA terminal: 0.5 Vrms, more than 22 k (stereo)

0.35 mm minijack: 0.5 Vrms, less than 2.2 k

(AUDIO OUTPUT 1-4)

Speaker system 4 cm 285 cm oval

Rated voltage AC 100-240 V

Input current 3.6 A

Rated frequency 50/60 Hz

Power consumption (standby) 350 W (Lamp Setting "Bright")/

305 W (Lamp Setting "Eco + Quiet") with AC 100 V

330 W (Lamp Setting "Bright")/

285 W (Lamp Setting "Eco + Quiet") with AC 240 V

Power consumption (standby) 5 W (AC 100 V) - 5 W (AC 240 V)

Energy consumption 1,315 BTU/hour (Lamp Setting "Bright")/

1,145 BTU/hour (Lamp Setting "Eco + Quiet") with AC 100 V

1,240 BTU/hour (Lamp Setting "Bright")/

1,070 BTU/hour (Lamp Setting "Eco + Quiet") with AC 240 V

Operating temperature 41°F to 95°F (+5°C to +35°C)

Storage temperature -4°F to 140°F (-20°C to +60°C)

Caselet Plastic

Replacement parts See the equipment.

Dimensions (approx.) 12 13/32 4 19/64 11 1/32 (315 (W) 109 (H) 280 (D) mm) (main body only)
12 13/32 4 47/64 11 37/64 (315 (W) 120 (H) 294 (D) mm) (including adjustment foot and projecting parts)

Weight (approx.) 8.6 lbs. (3.9 kg)

Replacement parts

Remote control, Power cord for Europe, except U.K., Power cord for U.K. and Singapore, Power cord for Australia, New Zealand and Oceania, 3 RCA to 15-pin D-sub adaptor, 21 pin RCA conversion adaptor, Video cable, Operation manual

AS shown in the illustration, SHARP reserves the right to make design and specification changes without prior notice. The performance specifications are nominal values of production units. There may be some deviations from these values in individual units.

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Using the Menu Screen

ENTER button

Adjustment buttons (P/R/O/Q)

MENU/HELP button

Adjustment buttons (P/R/O/Q)

MENU/HELP button

ENTER button

RETURN button

• Press I RETURN to return to the previous screen when the menu is displayed.

Example: Adjusting "Bright".

This operation can also be performed using the buttons on the projector.

1 Press B MENU.

2 Press Q or O and select "Picture" to adjust.

Example "Picture" screen menu for INPUT 1 (Component mode)

Picture Mode

Contrast -30 ↔ +3

Bright -30 ↔ +3

Color -30 ↔ +3

Tint -30 ↔ +3

Sharp -30 ↔ +3

Red -30 ↔ +30 *3

Blue -30 ↔ +30 *3

CLR Temp

5500K

6500K

7500K

8500K

9300K

10500K

Bright Boost [On/Off]

Progressive

2D Progressive

Film Mode

Bright

Eco + Quiet

Picture Mode

Sub menu

Contrast

Bright

Side Bar

Cinema Zoom

Tint

Sharp

CLR Temp [7500K]

Bright Boost

Progressive

Lamp Setting

Logo

Reset

SCR-ADJ.

ENTER

END

Main menu

SCR - ADJ

→ Page 43

Resize

→ Page 43

Keystone -100 ↔ +100

→ Page 43

OSD Display [On/Off]

→ Page 43

Background

→ Page 43

PRJ Mode

→ Page 43

Language

→ Page 43

English

Deutsch

Español

Nederlands

Français

Italiano

Svenska

Português

Front

Ceiling + Front

Rear

Ceiling + Rear

Useful Features

Downloaded From projector-manual.com Sharp Manuals

Computing component signal through INPUT 1 or when selecting INPUT 3 or INPUT 4.

Menu Items (Continued)

“Projection adjustment (PRJ-ADJ)” menu

Picture	SCR - ADJ	PRJ - ADJ	?	Help
Auto Search	⇒	Off		
Auto Sync	⇒	On		
Auto Power Off	⇒	On		
System Sound	⇒	Off		
Speaker	⇒	On		
RS-232C	⇒	9600 bps		
Fan Mode	⇒	Normal		

Lamp Timer(Life) [0] h (100%)

⇐ SEL./ADJ. ⏎ ENTER ⏻ END

Main menu

PRJ - ADJ
➔ Page 44

Sub menu

Auto Search [On/Off]	
➔ Page 44	
Auto Sync [On/Off]	
➔ Page 44	
Auto Power Off [On/Off]	
➔ Page 44	
System Sound [On/Off]	
➔ Page 45	
Speaker [On/Off]	
➔ Page 45	
RS-232C	9600 bps 115200 bps
➔ Page 45	
Fan Mode	Normal High
➔ Page 45	
Lamp Timer(Life)	
➔ Page 45	

“Help” menu

Picture	SCR - ADJ	PRJ - ADJ	?	Help
<ul style="list-style-type: none"> • There is no picture or audio • Vertical stripes or flickering image appear • Data image is not centered • Color is faded or poor • Picture is dark • The image is distorted • Reset all adjustments to default settings 				

⇐ SEL. ⏎ ENTER ⏻ END

The items you can set with “Help” menu

“Help” menu ➔ Page 46

- Vertical stripes or flickering image appear
 - Auto Sync
 - Adjust vertical noise
 - Adjust horizontal noise
- Data image is not centered
 - Auto Sync
 - H-Pos
 - V-Pos
- Color is faded or poor
 - INPUT 1 or INPUT 2
 - Signal type: Auto/RGB/Component
 - INPUT 3 or INPUT 4
 - Video System: Auto / PAL / SECAM / NTSC4.43/NTSC3.58/PAL-M/PAL-N/PAL-60

* The selectable items vary depending on the input signal and the selected input mode.

Using the Menu Screen

ENTER button

Adjustment buttons (▲/▼)


MENU/HELP button

Adjustment buttons

MENU/HELP MENU/HELP
button

ENTER ENTER button

RETURN RETURN button

- Press  RETURN to return to the previous screen when the menu is displayed.

ems

shows the items that can be set in the projector.

enu

INPUT 2
INPUT 3/INPUT 4

The screenshot shows the 'PRJ - ADJ' menu on a digital camera. The menu is divided into two columns. The left column contains a list of items, each with a checkbox and an icon. The right column contains a list of items, each with a checkbox and an icon. The 'Standard' item is selected. The '7500 K' item is highlighted. The '3D Progressive' and 'Bright' items are also visible. The 'ENTER' and 'END' buttons are shown at the bottom.

Menu Selections (Adjustments)

Example: Adjusting "Bright".

Standard Bright Boost (0/1/2)

1 Press  MENU.

• The "Picture" menu screen for selected input mode is displayed.

2 Press ► to adjust.

Investment (SCR-ADJ)" menu

- ADJ	PRJ - ADJ	?	Help
[0]	⇒ Stretch	-	+
	⇒ On		
	⇒ Logo		
	⇒ Front		
	⇒ English		

⏮ ENTER
END ⏭

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Picture Mode
➔ Page 41

Contrast	-30 ↔ +30
Bright	-30 ↔ +30
Color	-30 ↔ +30
Tint	-30 ↔ +30
Sharp	-30 ↔ +30
Red	-30 ↔ +30
Blue	-30 ↔ +30

➡ Page 42

CLR Temp

5500K
6500K
7500K
8500K
9300K
10500K

Page 42

Bright Boost (0/1/2)

Page 42

the buttons on the projector

Example "Picture" screen menu for INPUT 1

The screenshot shows the 'Picture' menu on a Sony device. The menu is divided into two main sections: 'Picture' and 'SCR - ADJ'. The 'Picture' section includes options like 'Picture Mode', 'Contrast', 'Brightness', 'Side Bar', 'Camera Zoom', 'Tint', 'Sharp', 'CLR Temp', 'Bright Boost', 'Progressive', and 'Lamp Setting'. The 'SCR - ADJ' section includes 'Standard', '3D Progressive', and 'Bright'. The 'Standard' option is currently selected, and its sub-menu is visible, showing various picture adjustment sliders and icons. The 'Lamp Setting' option is also visible, with a sub-menu showing 'Bright', 'Eco', and 'Quiet'.

PRJ Mode
➔ Page 43

Language
➔ Page 43

Front
Ceiling + Front
Rear
Ceiling + Rear

English
Deutsch
Español

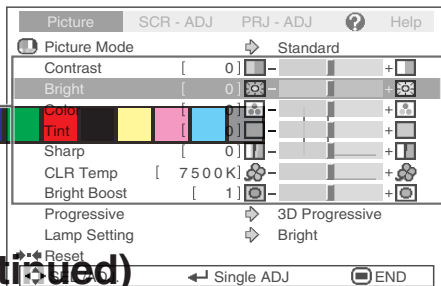
➔ Page 43

Useful Features

Using the Menu Screen (Continued)

3 Press ▲ or ▼ and select "Bright" to adjust.

- The selected item is highlighted.



Video Equipment (Continued)

Equipment with S-video output terminal (INPUT3)

DVD etc.

To adjust the projected image while watching it, press **ENTER**.

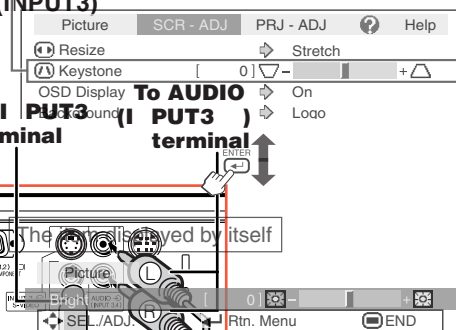
- The selected item (e.g., Bright) is displayed by itself at the bottom of the screen.
- When pressing ▲ or ▼, the following item ("Color" after "Bright") will be displayed.

Note
S-video cable (commercially available)

Press **ENTER** again to return to the previous screen.

To I PUT3 terminal

To AUDIO (I PUT3) terminal

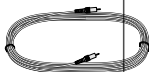


4 Press ◀ or ▶ to adjust the item selected.

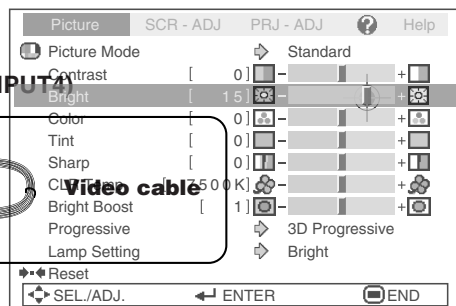
- The adjustment is stored.

Equipment with video output terminal (INPUT1)

Supplied accessory



Video cable



To I PUT terminal

To AUDIO (I PUT 3) terminal

5 Press **MENU/HELP**.

- The menu screen will disappear.

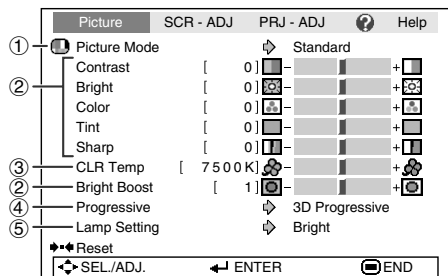
Note

- Menu buttons do not function while the projector is operating the "Auto Sync", "FREEZE", or "AV MUTE" functions.

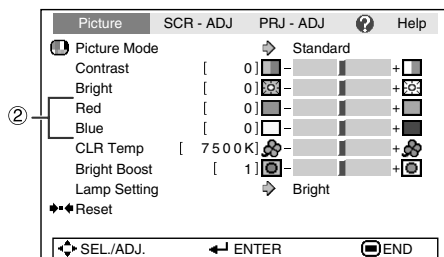
Picture Adjustment (“Picture” menu)

Menu operation → Page 39

► Example: “Picture” screen menu for INPUT 3 mode



► Example: “Picture” screen menu for INPUT 1 (RGB) mode



① Selecting the Picture Mode

Selectable items	Description	The default settings of each item when selecting Picture Mode		
		CLR Temp	Bright Boost	Lamp Setting
Standard	For standard image	7500K	1	Bright
Natural	A balanced color image is obtained.	7500K	0	Bright
Dynamic	A vivid image is obtained.	7500K	2	Bright
Movie1	Gives greater depth to darker portions of images.	6500K	0	Eco + Quiet
Movie2	Brightness is toned down and the image becomes more balanced.	5500K	0	Eco + Quiet

- You can set or adjust each item in the “Picture” menu to your preference. Any changes you make are retained in memory.

Note

- You can also press **PICTURE MODE** on the remote control to select the picture mode. (See page 36.)

Picture Adjustment (“Picture” menu) (Continued)

Menu operation → Page 39


② Adjusting the Image

Adjustment Items	◀ button	▶ button
Contrast	For less contrast.	For more contrast.
Bright	For less brightness.	For more brightness.
Color*1	For less color intensity.	For more color intensity.
Tint*1 *2	For making skin tones purplish.	For making skin tones greenish.
Sharp*1	For less sharpness.	For more sharpness.
Red	For weaker red.	For stronger red.
Blue	For weaker blue.	For stronger blue.
Bright Boost	For high fidelity color reproduction.	For more vividness.

*1 Not displayed in the RGB input mode.

*2 “Tone” will appear on the menu screen only when PAL or SECAM signals are input (including when forcibly changed to those input signals). There is basically no need to adjust “Tone”, but you can adjust the picture tone with this adjustment when inputting PAL or SECAM signals.

Note

- To reset all adjustment items, select “Reset” and press  ENTER.

③ Adjusting the Color Temperature

Selectable items	Description
5500K 6500K 7500K 8500K 9300K 10500K	For lower color temperature for warmer, reddish incandescent-like images. ↕ For higher color temperature for cooler, bluish, fluorescent-like images.

Note

- Values on “CLR Temp” are only for general standard purposes.

④ Progressive

Selectable items	Description
2D Progressive	Useful to display fast-moving images such as sports.
3D Progressive	Useful to display relatively slow-moving images such as drama and documentary more clearly.
Film Mode	Reproduces the image of film source* clearly. Displays the optimized image of film transformed with three-two pull down (NTSC and PAL60Hz) or two-two pull down (PAL50Hz and SECAM) enhancement to progressive mode images.

* The film source is a digital video recording with the original encoded as is at 24 frames/second. The projector can convert this film source to progressive video at 60 frames/second with NTSC and PAL60Hz or at 50 frames/second with PAL50Hz and SECAM to play back a high-definition image.

Note

- In NTSC or PAL60Hz, even if the 3D Progressive mode has been set, the three-two pull down enhancement will be enabled automatically when the film source has been entered.
- When the image is blurred or noisy, switch to the optimal mode.
- When using progressive inputs, inputs are directly displayed so that 2D Progressive, 3D Progressive and Film Mode cannot be selected.

⑤ Lamp Setting

Selectable items	Brightness	Fan sound	Power consumption (When using AC 100V)	Lamp Life
Eco + Quiet	Approx. 87%	Low	305W	Approx. 3,000 hours
Bright	100%	Normal	350W	Approx. 2,000 hours

Note

- When “Lamp Setting” is set to “Eco+Quiet”, the power consumption will decrease and the lamp life will extend. (Projection brightness decreases approximately 13%.)

Adjusting the Projected Image

Keystone Correction

Keystone Correction

Make sure that both the projector and computer are set for the same baud rate.

the Resize mode, see pages 34

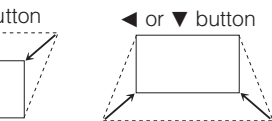
press **RESIZE** on the remote

the resize mode. (See page 34)

Keystone Correction

The function for correcting trapezoidal distortion is called Keystone Correction.

Adjust just with the slide bar.



For details of Keystone Correction.

Keystone Correction can be adjusted up or down by approximately ± 13 degrees.

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Adjusting the On-screen Display



This function changes the fan rotation speed.

Selectable items	Description
Normal	Suitable for normal environments.
High	Select this when using the projector at altitudes of approximately 4,900 feet (1,500 meters) or more.

When "Fan Mode" is set to "High", the fan rotation speeds up, and the fan noise becomes louder.

Menu operation → Page 39



You can confirm the cumulative lamp usage time and the remaining lamp life (percentage).

Lamp usage condition	Remaining lamp life
100%	5%
Approx. 3,000 hours	Approx. 150 hours
Approx. 2,000 hours	Approx. 100 hours

Selectable items	Description
Logo	Sharp logo
Blue screen	Blue screen
None	None

Reversing/Inverting Projected Images

It is recommended that the lamp be changed when the remaining lamp life becomes 5%.
The lamp life may vary depending on the usage condition.

Selectable items	Description
Front	Normal image (Projected from the front of the screen)
Ceiling + Front	Inverted image (Projected from the front of the screen with an inverted projector)
Rear	Reversed image (Projected from the rear of the screen or with a mirror)
Ceiling + Rear	Reversed and inverted image (Projected with a mirror)

See page 19 for details of Projection (PRJ) Mode.

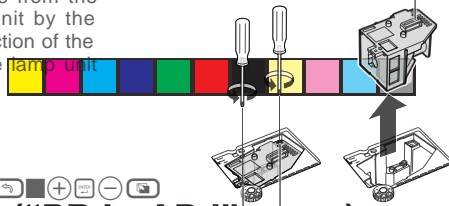
Selecting the On-screen Display Language

The projector can switch the on-screen display language among 11 languages.

English	Spanish
---------	---------



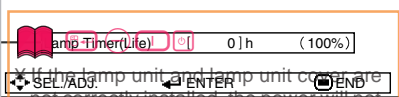
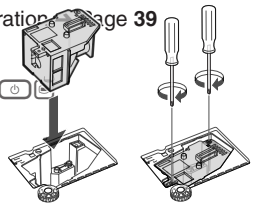
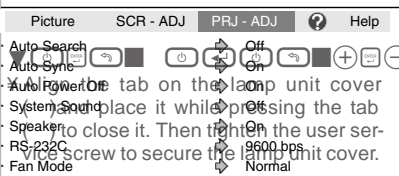
¥ Loosen the securing screws from the lamp unit. Hold the lamp unit by the handle and pull it in the direction of the arrow. At this time, keep the lamp unit horizontal and do not tilt it.



Setting the Projector Function "PRJ - ADJ" menu)

Insert the lamp unit into the lamp unit compartment. Fasten the securing screws.

Menu operation page 39



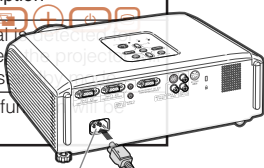
If the lamp unit and lamp unit cover are not correctly installed, the power will not turn on if the projector is powered on.

Search Function

③ Auto Power Off Function

Search function automatically searches for and input mode in which signals are when the projector is turned on. PUT button is pressed

Selectable items	Description
On	When no input signal is detected for more than 15 minutes, the projector automatically enters standby mode.
Off	The Auto Power Off function is disabled.



Reset the lamp timer after replacing the lamp.

Search is set to "On"

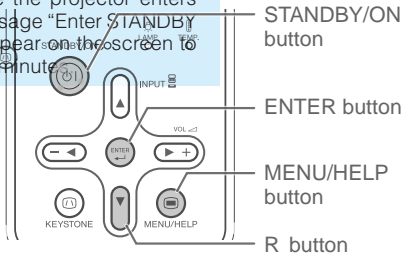
When the input signal is not found, the projector searches for the input source in the order of INPUT 1 → INPUT 2 → INPUT 3 → INPUT 4. If you reset the lamp timer only when the projector is powered on, the lamp timer will be reset. If you reset the lamp timer when the projector is powered off, the lamp timer will not be reset. If you reset the lamp timer when the projector is powered on, the lamp timer will be reset. If you reset the lamp timer when the projector is powered off, the lamp timer will not be reset.

Note When the Auto Power Off function is set to "On", 5 minutes before the projector enters standby mode, the message "Enter STANDBY mode in X min." will appear on the screen to indicate the remaining minutes.

Sync to Sync



While simultaneously holding down the ENTER and R buttons on the projector, press the STANDBY/ON button on the remote control. When the message "LAMP 0000H" is displayed, indicating the lamp timer is reset.



④ Setting the Confirmation Sound (System Sound)

Selectable items	Description
On	A confirmation sound is made when the projector turns on/off.
Off	No confirmation sound is made.

⑦ Fan Mode Setting

This function changes the fan rotation speed.

Selectable items	Description
Normal	Suitable for normal environments.
High	Select this when using the projector at altitudes of approximately 4,900 feet (1,500 meters) or more.

When "Fan Mode" is set to "High", the fan rotation speeds up, and the fan noise becomes louder.

39

⑧ Checking the Lamp Life Status

You can confirm the cumulative lamp usage time and the remaining lamp life (percentage).

Lamp usage condition	Remaining lamp life	
	100%	5%
With Lamp Setting set to "Eco + Quiet"	Approx. 3,000 hours	Approx. 150 hours
Operated exclusively with Sharp logo screen setting set to "Blue screen"	Approx. 2,000 hours	Approx. 100 hours

⑥ Selecting the Transmission Speed (RS-232C)

Make sure that both the projector and computer are set for the same baud rate.

Selectable items	Description
①	The audio signal is output from the internal speaker.
②	
③	
④	The audio signal is not output from the internal speaker.
⑤	
⑥	

Selecting the Background Image

Logo	Sharp logo screen
Description	Blue screen
None	

⑤ Reversing/Inverting Projected Images

Note

- It is recommended that the lamp be changed when the remaining lamp life becomes 5%.
- The lamp life may vary depending on the usage condition.

Front	Normal image (Projected from the front of the screen)
Ceiling + Front	Inverted image (Projected from the front of the screen with an inverted projector)
Rear	Reversed image (Projected from the rear of the screen or with a mirror)
Ceiling + Rear	Reversed and inverted image (Projected with a mirror)

See page 19 for details of Projection (PRJ) Mode.

⑥ Selecting the On-screen Display Language

g the Projected Image

ADJ (5) Speaker Setting

g the R

the Resize mode, see pages 34

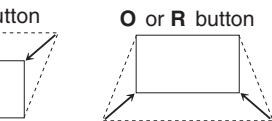
press H RESIZE on the remote

the resize mode. (See page 34.)

one Correction

stone Ó on the ÓSCR-ADJ Ó

just with the slide bar.



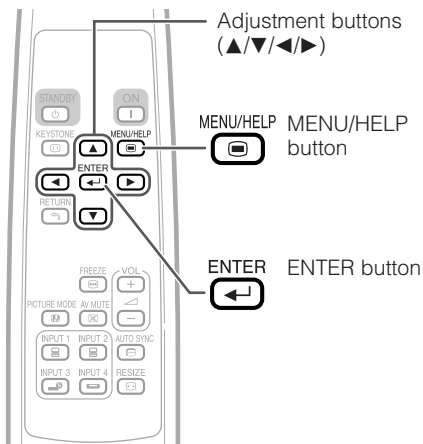
Correction can be adjusted up of approximately ± 13 degrees "e" is set to "Stretch").

Troubleshooting with “Help” menu

This function advises you to solve the problems during usage.

Utilizing “Help” menu functions

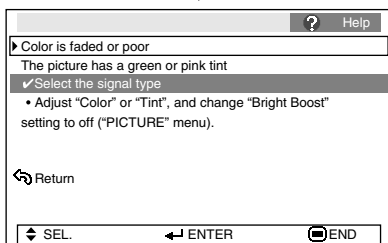
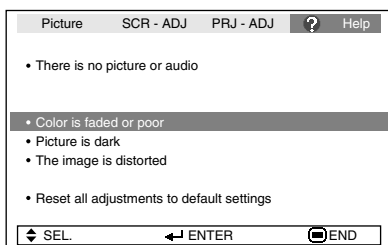
Example: When the picture has a green tint
When the picture has a green tint on INPUT 1 (Component)/INPUT 2 (Component).



1 Press MENU/HELP.

2 Press ◀ or ▶ to select “Help”, then press ENTER.

3 Press ▲ or ▼ to select “Color is faded or poor” on Help menu, then press ENTER.



4 Select “Select the signal type”, then press ENTER.

5 Select “Component”, then press ENTER.

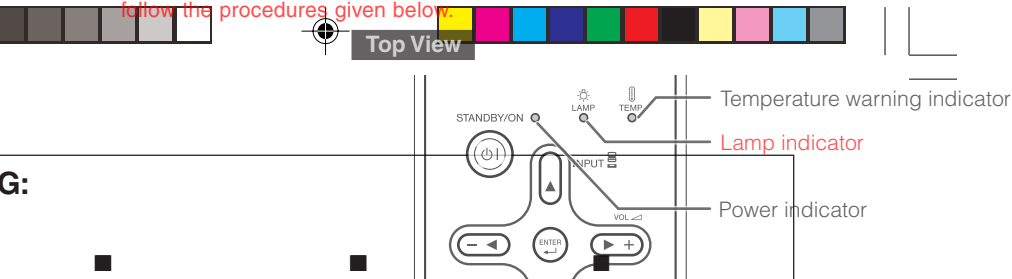
- If there are more items to be set after this, follow the instructions on the screen and select the best item for your needs.

Note

- You can adjust the items with check marks (✓).
- The items in the “Help” menu change, depending on the input signal or setting that you have selected.
- If the problem is not solved, refer to “Troubleshooting”. (see pages 56 and 57)

Manual

- The warning lights (power indicator, lamp indicator and temperature warning indicator) on the projector indicate problems inside the projector.
- If a problem occurs, either the temperature warning indicator or the lamp indicator will illuminate red, and the projector will enter standby mode. After the projector has entered standby mode, follow the procedures given below.



About the temperature warning indicator





TEMP. DISPOSAL

If the temperature inside the projector increases, due to blockage of the air vents, or the setting location, "TEMP." will illuminate in the lower left corner of the picture. If the temperature keeps on rising, the lamp will turn off and the temperature warning indicator will blink, the cooling fan will run, and then the projector will enter standby mode. After "TEMP." appears, be sure to perform the measures described on page 49.

Concerning Lamp Replacement



Change The Lamp.

- When the remaining lamp life becomes 5% or less,  (yellow) and "Change The Lamp" will be displayed on the screen. When the percentage becomes 0%, it will change to  (red), the lamp will automatically turn off and then the projector will automatically enter standby mode. At this time, the lamp indicator will illuminate in red.
- If you try to turn on the projector a fourth time without replacing the lamp, the projector will not turn on.

Indicators on the Projector

Power indicator	Red on	Normal (Standby)
	Green on	Normal (Power on)
	Red blinks	Abnormal (See page 49.)
	Green blinks	Normal (Cooling)
Lamp indicator	Green on	Normal
	Green blinks	The lamp is warming up or shutting down.
	Red on	The lamp is shut down abnormally or requires to be changed. (See page 49.)
Temperature warning indicator	Off	Normal
	Red on	The internal temperature is abnormally high. (See page 49.)

Regarding the Lamp

Lamp


- It is recommended that the lamp (sold separately) be replaced when the remaining lamp life becomes 5% or less, or when you notice a significant deterioration in the picture and color quality. The lamp life (percentage) can be checked with the on-screen display. (see page 45)
- Purchase a replacement lamp of type AN-100LP from your place of purchase, nearest Sharp Authorized Projector Dealer or Service Center.

Caution Concerning the Lamp

- This projector utilizes a pressurized mercury lamp. A loud sound may indicate lamp failure. Lamp failure can be attributed to numerous sources such as: excessive shock, improper cooling, surface scratches or deterioration of the lamp due to a lapse of usage time. The period of time up to failure largely varies depending on the individual lamp and/or the condition and the frequency of use. It is important to note that failure can often result in the bulb cracking.
- When the lamp replacement indicator and on-screen display icon are illuminated, it is recommended that the lamp be replaced with a new one immediately, even if the lamp appears to be operating normally.
- Should the lamp break, there is also a possibility that glass particles may spread inside of the projector. In such a case, it is recommended you contact your nearest Sharp Authorized Projector Dealer or Service Center to assure safe operation.
- Should the lamp break, the glass particles may spread inside the lamp cage or gas contained in the lamp may be vented into the room from the exhaust vent. Because the gas in this lamp includes mercury, ventilate the room well if the lamp breaks and avoid all exposure to the released gas. In case of exposure to the gas, consult a doctor as soon as possible.

Replacing the Lamp

- Do not remove the lamp unit from the projector right after use. The lamp will be very hot and may cause burn or injury.
 - **Carefully change the lamp by following the instructions described in this section. * If you wish, you may have the lamp replaced at your nearest Sharp Authorized Projector Dealer or Service Center.**
- * If the new lamp does not light after replacement, take your projector to the nearest Sharp Authorized Projector Dealer or Service Center for repair.

Problem	Check	Page
Picture is green on INPUT 1 (Component)/INPUT 2 (Component). Picture is pink (no green) on INPUT 1 (RGB)/INPUT 2 (RGB).	<ul style="list-style-type: none"> Change the input signal type setting. Select "Color is faded or poor" in the "Help" menu, and then select an input signal type. 	46
Picture flickers on INPUT 1 (RGB)/INPUT 2 (RGB).	<ul style="list-style-type: none"> Select "Initiate "Auto Sync" Adjustments" after selecting "Vertical stripes or flickering image appear" in the "Help" menu, and then press ENTER. If the picture does not improve, select "Adjust horizontal noise", and then press ENTER. After that, press ◀ or ▶ to adjust. 	46
Picture is too bright and whitish.	<ul style="list-style-type: none"> Image adjustments are incorrectly set. Compatible with the signals below in 	42
The cooling fan becomes noisy.	<ul style="list-style-type: none"> When the temperature inside the projector increases, the cooling fan runs. 	—
The lamp does not light up.	<ul style="list-style-type: none"> Intelligent Compression When the temperature inside the projector increases, the cooling fan runs. Intelligent Compression and Expansion When the temperature inside the projector increases, the cooling fan runs. 	—
The lamp does not light up.	<ul style="list-style-type: none"> When the temperature inside the projector increases, the cooling fan runs. 	48, 51
The image is sometimes flickering.	<ul style="list-style-type: none"> Compatible with the signals below in 	23–27
The lamp does not light up.	<ul style="list-style-type: none"> When the temperature inside the projector increases, the cooling fan runs. 	46
The lamp does not light up.	<ul style="list-style-type: none"> When the temperature inside the projector increases, the cooling fan runs. 	51
The lamp does not light up.	<ul style="list-style-type: none"> When the temperature inside the projector increases, the cooling fan runs. 	51

2 and COMPUTER-RGB/COMPONENT OUTPUT Terminals:

[illegible]

ector of the DIN-D-sub RS-232C adaptor (optional
tion

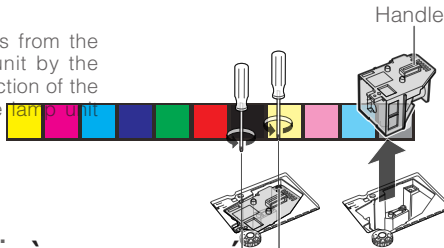
Downloaded From projector-manual.com Sharp Manuals

Horizontal Frequency (KHz)		Vertical Frequency (Hz)
Not connected	Not connected	80
Receive Data	Input	Connected to internal circuit

Regarding the Lamp (Continued)

4 Remove the lamp unit.

- Loosen the securing screws from the lamp unit. Hold the lamp unit by the handle and pull it in the direction of the arrow. At this time, keep the lamp unit horizontal and do not tilt it.



5 Insert the new lamp unit.

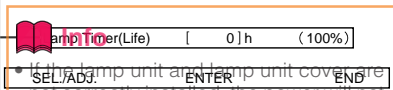
- Push the lamp unit firmly into the lamp unit compartment. Fasten the securing screws.

PRJ - ADJ (Menu)

Menu operation Page 39

6 Replace the lamp unit cover.

- Press the tab on the lamp unit cover.
- Place it while pressing the tab to close it. Then tighten the user service screw to secure the lamp unit cover.



3 Auto Power Off Function

Selectable items	Description
On	When no input signal is detected for more than 15 minutes, the projector automatically enters standby mode.
Off	The Auto Power Off function is disabled.



AC socket

- When the Auto Power Off function is set to On, 5 minutes before the projector enters standby mode, the message "STANDBY mode in X min." will appear on the screen to indicate the remaining minutes.

STANDBY/ON button

ENTER button

MENU/HELP button

▼ button



1 Connect the power cord.

2 Reset the lamp timer.

- Simultaneously holding down the [MENU/HELP], [ENTER], and [▼] buttons on the projector, press the [STANDBY/ON] button. The message "LAMP 0000H" is displayed, indicating that the lamp timer is reset.

Auto Sync adjustment is not automatically performed.

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ater Compatibility Chart

nal support

frequency: 11.5-70 kHz
frequency: 45-85 Hz, noisy.

12-108 MHz
Compatible with even the
the lamp does not light
and the projected image on

is a list of modes that conform to
not VESA standards projection.

Resolution The image sometimes
flickers

640 350
31.5
27.0
37.5
27.0
31.5

640 480
31.5
27.0
31.5

720 350
The lamp needs much
time to light on
Picture is dark

720 480
31.5
37.9
31.5

640 480
37.9
31.5
43.3
31.4

800 600
37.9
45.6
48.1
46.9

800 600
53.7
40.3
48.4

1024 768
56.5
60.0
68.7

1024 768
55.0
66.2
67.5

1,152 864
64.0
64.0
64.0

1,400 1,050
37.8
49.7
60.2

832 624
A+ 1,400 1,050
A 832 624

832 624
A 832 624
A 832 624

832 624
A 832 624
A 832 624

832 624
A 832 624
A 832 624

832 624
A 832 624
A 832 624

832 624
A 832 624
A 832 624

Problem	Check	Page
Picture is green on INPUT 1 (Component)/ INPUT 2 (Component).	<ul style="list-style-type: none"> Change the input signal type setting. Select "Color is faded or poor" in the "Help" menu, and then select an input signal type. 	46
Picture is pink (no green) on INPUT 1 (RGB)/INPUT 2 (RGB).		
Picture flickers on INPUT 1 (RGB)/INPUT 2 (RGB).	<ul style="list-style-type: none"> Select "Initiate "Auto Sync" Adjustments" after selecting "Vertical stripes or flickering image appear" in the "Help" menu, and then press ENTER. If the picture hasn't improved, select "Adjust horizontal noise", and then press ENTER. After that, press O or Q to adjust. 	46
Picture is too bright and whitish.	<ul style="list-style-type: none"> Image adjustments are incorrectly set. Compatible with the signals below in Intelligent Compression 	42
The cooling fan becomes noisy.	<ul style="list-style-type: none"> When the temperature inside the projector increases, the cooling fan runs faster. A, XGA, SXGA, SXGA+ 	-
The lamp does not light and the projected image on the screen is dim.	<ul style="list-style-type: none"> Intelligent Compression and Expansion The lamp indicator is illuminating in red. Replace the lamp using technology. 	48, 51
The image is blurry.	<ul style="list-style-type: none"> Vertical lines are incorrectly connected to the projector or the connected display. VESA Standard 	23-27
The image sometimes flickers.	<ul style="list-style-type: none"> Select "Vertical stripes or flickering image appear" in the "Help" menu, and make the necessary adjustments. If this happens frequently, replace the lamp. 	46
The lamp needs much time to light on. Picture is dark.	<ul style="list-style-type: none"> The lamp will eventually need to be changed. While the remaining lamp life draws to a close, replace the lamp. 	51

2 and COMPUTER RGB/COMPONENT OUTPUT Terminals:

B Input/Output
This unit is equipped with a high processor, its performance could be adversely affected by incorrect operation or interference. This should happen, unplug the Unit and plug it in again after more than 5 minutes.

640 480
37.9
31.5
43.3
31.4

800 600
37.9
45.6
48.1
46.9

800 600
53.7
40.3
48.4

1024 768
56.5
60.0
68.7

1024 768
55.0
66.2
67.5

1,152 864
64.0
64.0
64.0

1,400 1,050
37.8
49.7
60.2

832 624
A+ 1,400 1,050
A 832 624

832 624
A 832 624
A 832 624

832 624
A 832 624
A 832 624

832 624
A 832 624
A 832 624

832 624
A 832 624
A 832 624

Component Input/Output	Reference
1. PB (CB)	67
2. Not connected	68
3. Not connected	69
4. Not connected	70
5. Not connected	71
6. Earth (GND)	72
7. Earth (GND)	73
8. Earth (GND)	74
9. Not connected	75
10. Not connected	76
11. Not connected	77
12. Not connected	78
13. Not connected	79
14. Not connected	80
15. Not connected	81
Reference	67
Not connected	68
Connected to internal circuit	69
Connected to internal circuit	70
Not connected	71
Connected to internal circuit	72
Not connected	73
Connected to internal circuit	74
Not connected	75
Connected to internal circuit	76
Not connected	77
Connected to internal circuit	78
Not connected	79
Connected to internal circuit	80
Not connected	81

Lamp unit
Not connected

Connected to internal circuit
Not connected

Connected to internal circuit
Not connected

Connected to internal circuit
Not connected

Connected to internal circuit
Not connected

Upscale

Intelligent Compression

Upscale

Intelligent Compression

Upscale

ector of the DIN-D-sub RS-232C adaptor (optional)

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Horizontal Frequency (KHz) Vertical Frequency (Hz)
Input Not connected
Connected to internal circuit

RS-232C Specifications and Command Settings

Computer control

A computer can be used to control the projector by connecting an RS-232C serial control cable (cross type, sold separately) to the projector. (See page 27 for connection.)

Communication conditions

Set the serial port settings of the computer to match that of the table.

Signal format: Conforms to RS-232C standard.

Baud rate: * 9,600 bps/115,200 bps

Data length: 8 bits

Parity bit: None

Stop bit: 1 bit

Flow control: None

* Set the projector's baud rate to the same rate as used by the computer.

Basic format

Commands from the computer are sent in the following order: command, parameter, and return code. After the projector processes the command from the computer, it sends a response code to the computer.

Command format

C1	C2	C3	C4	P1	P2	P3	P4
----	----	----	----	----	----	----	----

Command 4-digit

Parameter 4-digit

Return code (0DH)

Response code format

Normal response

O	K	Return code (0DH)
---	---	-------------------

Problem response (communication error or incorrect command)

E	R	R	Return code (0DH)
---	---	---	-------------------

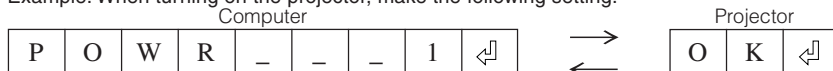


Info

- When controlling the projector using RS-232C commands from a computer, wait for at least 30 seconds after the power has been turned on, and then transmit the commands.
- When more than one code is being sent, send each command only after the response code for the previous command from the projector is verified.

Commands

Example: When turning on the projector, make the following setting.








CONTROL CONTENTS	COMMAND	PARAMETER	RETURN
Power Off	P O W R	_ _ _	0 OK or ERR
Power On	P O W R	_ _ _	1 OK or ERR
INPUT 1 (RGB1)	I R G B	_ _ _	1 OK or ERR
INPUT 2 (RGB2)	I R G B	_ _ _	2 OK or ERR
INPUT 3 (Video1)	I V E D	_ _ _	1 OK or ERR
INPUT 4 (Video2)	I V E D	_ _ _	2 OK or ERR



Note

- If an underbar (_) appears in the parameter column, enter a space.

Troubleshooting

Problem	Check	Page
 No picture and no sound or projector does not start.	<ul style="list-style-type: none"> Projector power cord is not plugged into the wall outlet. 	28
	<ul style="list-style-type: none"> Power to the external connected devices is off. 	–
	<ul style="list-style-type: none"> The selected input mode is wrong. 	30
	<ul style="list-style-type: none"> Cables incorrectly connected to the projector. 	23–27
	<ul style="list-style-type: none"> Remote control battery has run out. 	14
	<ul style="list-style-type: none"> External output has not been set when connecting notebook computer. 	25
 Sound is heard but no picture appears (or picture is dark).	<ul style="list-style-type: none"> The lamp unit cover is not installed correctly. 	51, 52
	<ul style="list-style-type: none"> Cables incorrectly connected to the projector. 	23–27
	<ul style="list-style-type: none"> “Bright” is set to minimum position. 	42
 Color is faded or poor.	<ul style="list-style-type: none"> Image adjustments are incorrectly set. Make adjustments of “Color” and “Tint” in “Picture Mode” and lower the “Bright Boost” value. 	42
	(Video Input only) <ul style="list-style-type: none"> Video input system is incorrectly set. 	46
 Picture is blurred; noise appears.	<ul style="list-style-type: none"> Adjust the focus. 	30
	<ul style="list-style-type: none"> The projection distance exceeds the focus range. 	20
	(Computer Input only) <ul style="list-style-type: none"> Perform “Fine Sync” Adjustments (“Clock” Adjustment) Perform “Fine Sync” Adjustments (“Phase” Adjustment) Noise may appear depending on the computer. 	46 46 –
 Picture appears but no sound is heard.	<ul style="list-style-type: none"> Cables incorrectly connected to the projector. 	23–27
	<ul style="list-style-type: none"> Volume is set to minimum. When the projector is connected to an external device and the volume is set to minimum, the sound is not output even if you turn up the volume of the external device. 	32
An unusual sound is occasionally heard from the cabinet.	<ul style="list-style-type: none"> “Speaker” is set to “Off”. 	45
Maintenance indicator on the projector illuminates or blinks in red.	<ul style="list-style-type: none"> If the picture is normal, the sound is due to cabinet shrinkage caused by room temperature changes. This will not affect operation or performance. 	–
Maintenance indicator on the projector illuminates or blinks in red.	<ul style="list-style-type: none"> See “Maintenance Indicators”. 	49
The projector cannot be turned on or put into the standby mode using the STANDBY/ON button on the projector.	<ul style="list-style-type: none"> The keylock is set. If the keylock is set to “ON”, all the buttons are locked. 	29

ter Compatibility Chart

nal support

frequency: 11.5-70 kHz
The cooling fan becomes
frequency: 45-85 Hz, noisy.

12-108 MHz
The lamp does not light
Compatible with over 1,000
of the projected images on.

is a list of modes that conform to
not VESA standards projection.

Resolution The image sometimes
flickers.

640 350 27.0
31.5
37.5
27.0
31.5

640 400 31.5
37.5
27.0
31.5

720 350 31.5
37.5
27.0
31.5

720 400 31.5
37.5
27.0
31.5

720 480 31.5
37.5
27.0
31.5

720 560 31.5
37.5
27.0
31.5

720 640 31.5
37.5
27.0
31.5

720 720 31.5
37.5
27.0
31.5

720 800 31.5
37.5
27.0
31.5

720 864 31.5
37.5
27.0
31.5

720 960 31.5
37.5
27.0
31.5

720 1024 31.5
37.5
27.0
31.5

720 1080 31.5
37.5
27.0
31.5

720 1152 31.5
37.5
27.0
31.5

720 1280 31.5
37.5
27.0
31.5

720 1440 31.5
37.5
27.0
31.5

720 1600 31.5
37.5
27.0
31.5

Check

• Change the input signal type setting.
Select "Color is faded or poor" in the "Help" menu, and then select
an input signal type.

Picture is pink (no green)
on INPUT 1 (RGB)/INPUT
2 (RGB).

Picture flickers on INPUT
1 (RGB)/INPUT 2 (RGB).

Picture is too bright and
whitish.

When the cooling fan becomes
noisy.

The lamp does not light
up.

The lamp indicator is illuminating in red.

The image sometimes
flickers.

Vertical stripes or flickering image appear.

The lamp will eventually need
to be changed.

When the remaining lamp life draws to a close, replace the lamp.

Upscale

Intelligent Compression

Reference 67

Upscale

Intelligent Compression

Reference 67

Upscale

Intelligent Compression

Reference 67

Upscale

Intelligent Compression

Reference 67

Upscale

Intelligent Compression

Page

46

46

46

42

—

48, 51

23-27

46

51

51

2 and COMPUTER RGB/COMPONENT OUTPUT Terminals:

B Input/Output

Component Input/Output

720 350 31.5
37.5
27.0
31.5

720 400 31.5
37.5
27.0
31.5

720 480 31.5
37.5
27.0
31.5

720 560 31.5
37.5
27.0
31.5

720 640 31.5
37.5
27.0
31.5

720 720 31.5
37.5
27.0
31.5

720 800 31.5
37.5
27.0
31.5

720 864 31.5
37.5
27.0
31.5

720 960 31.5
37.5
27.0
31.5

720 1024 31.5
37.5
27.0
31.5

720 1080 31.5
37.5
27.0
31.5

720 1152 31.5
37.5
27.0
31.5

When the remaining lamp life draws to a close, replace the lamp.

Upscale

Intelligent Compression

Reference 67

Upscale

Intelligent Compression

Reference 67

Upscale

Intelligent Compression

Reference 67

Upscale

Intelligent Compression

Reference 67

Upscale

ector of the DIN-D-sub RS-232C adaptor (optional
tion

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Horizontal Frequency (KHz) Vertical Frequency (Hz)

GB

Product type Projector
Model XV-Z100
Video system NTSC3.58/NTSC4.43/PAL/PAL-M/PAL-N/PAL-60/SECAM/DTV480P/DTV480P/
DTV540P/DTV576P/DTV720P/DTV1035i/DTV1080i/DTV1080i-50

Display method Single Chip Digital Micromirror Device™ (DMD™) by Texas Instruments

DMD panel Panel size: 0.53" single chip DMD

No. of dots 1460,000 dots (1284 (H) × 480 (V))
1-1.15 × zoom lens, F2.4-2.6, f=19.0-21.9 mm

Lens

Projection lamp 275-W DC lamp

Component input signal 15-pin mini D-sub connector
Y: 1.0 Vp-p, sync negative, 75 Ω terminated
P: 0.7 Vp-p, 75 Ω terminated
P: 0.7 Vp-p, 75 Ω terminated

Horizontal resolution 520 TV lines (DTV720P)
Computer RGB input 15-pin mini D-sub connector
(INPUT 1/2)/output RGB separate/sync on green type analog input: 0-0.7 Vp-p, positive, 75 Ω terminated
(OUTPUT) signal HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative)
VERTICAL SYNC. SIGNAL: Same as above

S-video input signal 4-pin mini DIN connector
(INPUT 3) Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated
C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated

Video input signal (INPUT 4) RCA connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω terminated

Vertical frequency 45-85 Hz

Horizontal frequency 15-70 kHz

Pixel clock 12-108 MHz

RGB 232C terminal 9-pin mini DIN connector

Audio input signal ø3.5 mm minijack or RCA terminal: 0.5 Vrms, more than 22 kΩ (stereo)
ø3.5 mm minijack: 0.5 Vrms, less than 2.2 kΩ

Audio output signal (AUDIO OUTPUT 1-4)

Speaker system 4 cm × 2.85 cm oval × 1

Rated voltage AC 100-240 V

Input current 3.6 A

Rated frequency 50/60 Hz

Power consumption (standby) 350 W (Lamp Setting: "Bright")/
305 W (Lamp Setting: "Eco + Quiet") with AC 100 V
330 W (Lamp Setting: "Bright")/
285 W (Lamp Setting: "Eco + Quiet") with AC 240 V

Power consumption (operation) 4 W (AC 100 V) - 5 W (AC 240 V)
1,315 BTU/hour (Lamp Setting: "Bright")/
1,145 BTU/hour (Lamp Setting: "Eco + Quiet") with AC 100 V
1,240 BTU/hour (Lamp Setting: "Bright")/
1,070 BTU/hour (Lamp Setting: "Eco + Quiet") with AC 240 V

Operating temperature 41°F to 95°F (+5°C to +35°C)

Storage temperature -4°F to 140°F (-20°C to +60°C)

Caselet Plastic

Cablelet 38 kHz

Dimensions (approx.) 12 13/32" × 4 19/64" × 11 1/32" (315 (W) × 109 (H) × 280 (D) mm) (main body only)
12 13/32" × 4 47/64" × 11 37/64" (315 (W) × 120 (H) × 294 (D) mm) (including adjustment foot and projecting parts)
8.6 lbs. (3.9 kg)

Weight (approx.)

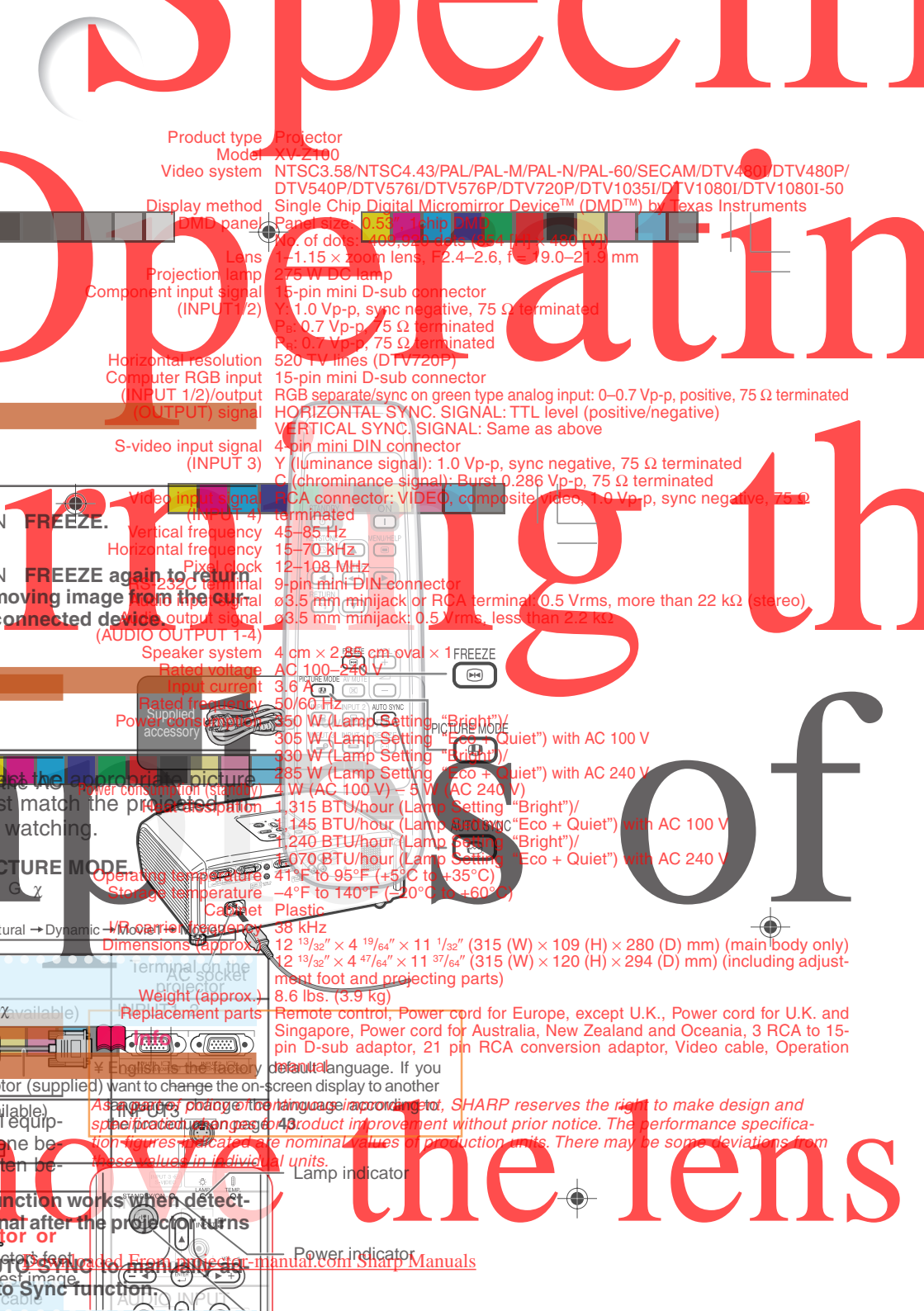
Replacement parts Remote control, Power cord for Europe, except U.K., Power cord for U.K. and Singapore, Power cord for Australia, New Zealand and Oceania, 3 RCA to 15-pin D-sub adaptor, 21 pin RCA conversion adaptor, Video cable, Operation

English is the factory default language. If you want to change the on-screen display to another

language, change the language according to the procedure on page 49. SHARP reserves the right to make design and product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

Lamp indicator

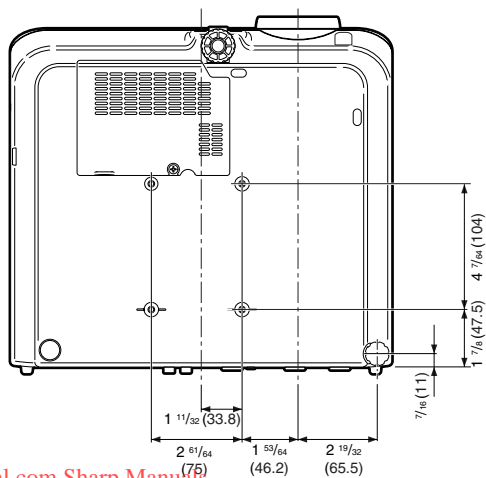
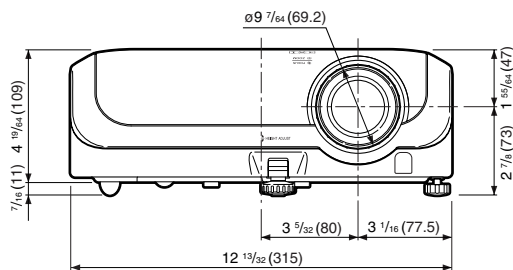
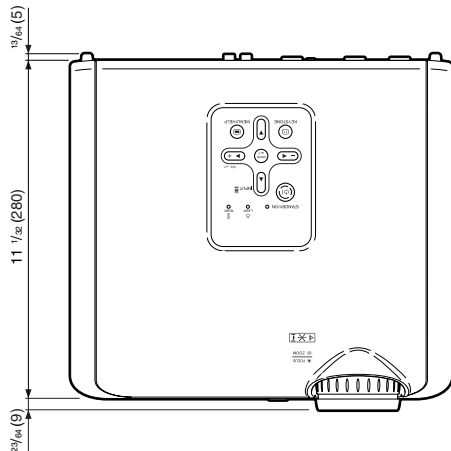
Power indicator





Dimensions

Units: inches (mm)



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Blue	42	Power cord	28
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Clock	46	R-6 batteries	14
CLR Temp (Color Temperature)	42	Rear adjustment foot	31
Color	42	Red	42
Contrast	42	Remote control	13
ENTER button	39	Replacing the lamp	50, 51
Exhaust vent	12, 47	Resize	34, 43
Two R-6 batteries	14	RESIZE button	34
(AA size, UM/SUM-3,	14	RETURN button	39
HP-7 or similar)	14	RGB cable	25
Focus ring	46	RS-232C terminal	27
FREEZE button	36	SCR - ADJ	43
Front adjustment foot	31	Screen Size and Projection Distance	20
H-Pos	38, 46	Screen Size	42
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Singapore	43		
Keystone Correction	43		
QACBA036WJPZ	43		
QACCLA018WJPZ	43		
For Australia, New	43		
Zealand and Oceania	43		
(6 (1.8 m))	43		
Power cord that corresponds to the wall outlet in your country.			

Accessories

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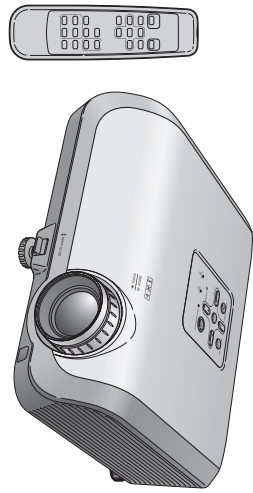
RS-232C adaptor (5⁵⁷/₆₄0 (15 cm))

AN-A1RS

XV-Z100

EN

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05.8.25, 6:01 AM

